FILE 'REGISTRY' ENTERED AT 15:22:41 ON 01 FEB 2005 Peptide L414 S PHWSY.LRP/SQSP

FILE 'CAPLUS' ENTERED AT 15:23:01 ON 01 FEB 2005 L5 17 S L4

ANSWER 1 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN L5

Entered STN: 21 May 2004

ACCESSION NUMBER: 2004:412742 CAPLUS

140:423952 DOCUMENT NUMBER:

Preparation of neuroprotective iron chelators and TITLE:

pharmaceutical compositions comprising them

Warshawsky, Abraham; Youdim, Moussa B. H.; Fridkin, INVENTOR(S):

Matitiyahu; Zheng, Hailin; Warshawsky, Rivka

Technion Research and Development Foundation Ltd., PATENT ASSIGNEE(S):

Israel; Yeda Research and Development Co. Ltd.

SOURCE: PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	PATENT NO.				KIND DATE			APPLICATION NO.			DATE							
	WO 2004041151			A2		2004		,	WO 2	003-	 1Ь93	2		2	0031			
WO	2004				A3		2004											
	W:						ΑU,											
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	
		LK,	LR,	LS,	LT,	LU,	ĽV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	
		NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ТJ,	
		TM,	TN,	TR,	TT,	TZ,	UA,	ŪG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw		
	RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	
		BY,	KG,	KZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
		ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
		TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	ΤG
PRIORITY	APP	LN.	INFO	. :					1	US 2	002-	4243	13P		P 20	0021	107	
									1	US 2	003-	5041	26P	:	P 2	0030	922	

MARPAT 140:423952

Novel iron chelators exhibiting neuroprotective and good transport properties are useful in iron chelation therapy for treatment of a disease, disorder or condition associated with iron overload and oxidative stress (e.g., a neurodegenerative or cerebrovascular disease or disorder, a neoplastic disease, hemochromatosis, thalassemia, a cardiovascular disease, diabetes, an inflammatory disorder, anthracycline cardiotoxicity, a viral infection, a protozoal infection, a yeast infection, retarding aging, and prevention and/or treatment of skin aging and skin protection against sunlight and/or UV light). The iron chelator function is provided by a 8-hydroxyquinoline, hydroxypyridinone or hydroxamate moiety, the neuroprotective function is imparted to the compound by a neuroprotective peptide, and a combined antiapoptotic and neuroprotective function by a propargyl group. The examples illustrate syntheses of compds. of the invention, e.g., Fmoc-KKC(HQ)L-NH2 (HQ is 8-hydroxyquinoline, Fmoc is fluorenylmethoxycarbonyl), for which iron-scavenging properties were assessed in human erythroleukemia K562 cells (shown graphically).

IT 691364-89-3 691364-91-7

RL: PRP (Properties)

(unclaimed sequence; preparation of neuroprotective iron chelators and pharmaceutical compns. comprising them)

L5 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 08 Feb 2004

ACCESSION NUMBER: 2004:100789 CAPLUS

DOCUMENT NUMBER: 140:157932

TITLE: Methods and compositions for treating benign

gynecological disorders with gonadotropin releasing

hormone (GnRH) analogs and steroid hormones

INVENTOR(S): Daniels, Anna-Marie; Daniels, John R.; Pike, Malcolm

C.; Spicer, Darcy V.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 18 pp.

CODEN: USXXCO

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.		KIND	DATE	APPLICA'	rion no.	DATE
US 200402386 WO 200401271				US 2002- WO 2003-		20021115 20030801
W: AE,	AG, AL,	AM, AT,	AU, AZ,	BA, BB, BG	BR, BY,	BZ, CA, CH, CN,
co,	CR, CU,	CZ, DE,	DK, DM,	DZ, EC, EE	, ES, FI,	GB, GD, GE, GH,
GM,	HR, HU,	ID, IL,	IN, IS,	JP, KE, KG	KP, KR,	KZ, LC, LK, LR,
LS,	LT, LU,	LV, MA,	MD, MG,	MK, MN, MW	, MX, MZ,	NI, NO, NZ, OM,
PG,	PH, PL,	PT, RO,	RU, SC,	SD, SE, SG	, SK, SL,	SY, TJ, TM, TN,
TR,	TT, TZ,	UA, UG,	US, UZ,	VC, VN, YU,	, ZA, ZM,	ZW
						ZW, AM, AZ, BY,
						DE, DK, EE, ES,
						SE, SI, SK, TR,
BF,	BJ, CF,	CG, CI,	CM, GA,			NE, SN, TD, TG
PRIORITY APPLN.	NFO.:					P 20020802
					-400575P	
					-400576P	
					-295337	
					-298378	
					-298851	A2 20021115

AB An improvement in a method of treating benign gynecol. disorders is described. In the method, treatment of a benign gynecol. disorder with a composition comprised of a gonadotropin releasing hormone (GnRH) compound and an

estrogenic compound, and optionally, an androgenic compound, is extended to premenopausal women who are not receiving an exogenously supplied progestin on a regular or periodic basis. Treatment in accord with the invention does not increase significantly the risk of endometrial hyperplasia. The method is also suitable for contraception.

IT 654640-87-6

RL: PRP (Properties)

(unclaimed sequence; methods and compns. for treating benign gynecol. disorders with gonadotropin releasing hormone (GnRH) analogs and steroid hormones)

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ANSWER 3 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN
T.5
     Entered STN: 08 Feb 2004
                         2004:100493 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         140:169637
                         Nasal spray formulation
TITLE:
                         Daniels, John R.; Pike, Malcolm C.; Spicer, Darcy V.;
INVENTOR(S):
                         Daniels, Annamarie
PATENT ASSIGNEE(S):
                         U.S. Pat. Appl. Publ., 21 pp.
SOURCE:
                         CODEN: USXXCO
DOCUMENT TYPE:
                         Patent
                         English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                          APPLICATION NO.
                                                                   DATE
     PATENT NO.
                         KIND
                                DATE
                                           ______
                         ____
                                                                   20021115
                                20040205
                                           US 2002-298378
     US 2004022739
                         A1
                                          WO 2003-US24337
                                                                  20030801
                         A1
                                20040212
     WO 2004012712
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO .:
                                            US 2002-400575P
                                                             P 20020802
                                                                P 20020802
                                            US 2002-400576P
                                                                P 20020802
                                            US 2002-400626P
                                                               A2 20021115
                                            US 2002-295337
                                            US 2002-298378
                                                               A2 20021115
                                            US 2002-298851
                                                               A2 20021115
     A nasal spray formulation for use in female contraception or in the
AΒ
     treatment of benign gynecol. disorders is described. The nasal preparation
is
     comprised of a GnRH compound and an estrogenic compound in the form of a
     water-soluble complex with a water-soluble cyclodextrin. The preparation
effectively
     suppresses ovarian estrogen and progesterone production, and prevents signs
     and symptoms of estrogen deficiency, without a significant increase in the
     risk of endometrial hyperplasia.
TΨ
     654640-87-6
     RL: PRP (Properties)
        (unclaimed sequence; nasal spray formulation)
     ANSWER 4 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN
L5
     Entered STN: 08 Nov 2002
                         2002:849464 CAPLUS
ACCESSION NUMBER:
                         137:358129
DOCUMENT NUMBER:
                         Preventives for postoperative recurrence of
TITLE:
                         premenopausal breast cancer
INVENTOR(S):
                         Igari, Yasutaka; Kusaka, Masami
```

Shears

Searcher :

571-272-2528

PATENT ASSIGNEE(S):

Takeda Chemical Industries, Ltd., Japan

SOURCE:

PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PA	CENT :	мо.			KIN	D :	DATE					ION I			D	ATE		
	WO	O 2002087616			A1	A1 20021107		WO 2002-JP4071				20020424							
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
			co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GΕ,	GH,	
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR,	LS,	
			LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	PL,	
			PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	
			UG,	US,	UZ,	VN,	YU,	ZA,	ZM,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,	CH,	
			CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	
			BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	
	CA	2444	727			AA		2002	1107		CA 2	002-	2444	727		2	0020	424	
	JP	2003	0125	52		A2		2003	0115	1	JP 2	002-	1227	34		2	0020	424	
	EP	1382	350			A1		2004	0121	:	EP 2	002-	7227	41		2	0020	424	
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR							
	US	2004	2357	48		A1		2004	1125	. 1	US 2	004-	4757	82		2	0040	607	
PRIO	RIT	APP	LN.	INFO	.:					1	JP 2	001-	1280	32	i	A 2	0010	425	
										1	WO 2	002-	JP40'	71	1	W 2	0020	424	

MARPAT 137:358129 OTHER SOURCE(S):

Disclosed are remedies for postoperative recurrence of premenopausal breast cancer containing a GnRH agonist or antagonist which makes it possible

to prevent the postoperative recurrence of premenopausal breast cancer without showing any serious side effects. By using sustained-release microcapsules, the drug effect can be sustained over a long time without frequently administering the drug. Thus, the postoperative recurrence of premenopausal breast cancer can be conveniently prevented over a prolonged period of time. Clin. studies showed that s.c. administration of Lupron Depot was effective to prevent recurrence of the breast cancer.

IT 474781-67-4

RL: PRP (Properties)

(unclaimed sequence; preventives for postoperative recurrence of premenopausal breast cancer)

REFERENCE COUNT:

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 5 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN T.5

Entered STN: 17 Feb 1997

1997:111231 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 126:113155

Functional bioassay for G-protein coupled receptor TITLE:

agonists and antagonists

Israel, David I.; Molineaux, Christopher J. INVENTOR(S):

Pharmaceutical Peptides Incorporated, USA PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DAT	E A	APPLICATION NO.	DATE
WO 9641169	A1 199	61219 V	VO 1996-US8895	19960605
W: AU, CA, JP RW: AT, BE, CH,	DE, DK, ES	, FI, FR,	GB, GR, IE, IT,	LU, MC, NL, PT, SE
CA 2220715	AA 199	61219	CA 1996-2220715	19960605
CA 2220715	C 200	41102		
AU 9660437	A1 199	61230 A	AU 1996-60437	19960605
AU 730875	B2 200	10315		
EP 830600	A1 199	80325 E	EP 1996-918089	19960605
EP 830600		30827		
R: AT, BE, CH,	DE, DK, ES	, FR, GB,	GR, IT, LI, LU,	NL, SE, MC, PT,
IE, FI				
JP 11507518	T2 199	90706	JP 1996-501357	19960605
AT 248373	E 200		AT 1996-918089	19960605
PRIORITY APPLN. INFO.:		J	JS 1995-479803	A 19950607
		V	7O 1996-US8895	W 19960605
			_	

Simple, rapid, high-throughout functional bioassays for identifying agents AΒ that act as either agonists or antagonists of G-protein coupled receptors (GPCRs), e.g., LH-RH receptor, M1 muscarinic receptor, and β 2-adrenergic receptor, are disclosed. In the methods of the invention, a test composition is contacted with an indicator cell expressing a

GPCR and at least one parameter of cellular metabolism of the indicator cells

is measured to identify a test compound(s) in the test composition as a receptor

agonist or antagonist. The assays can be used to screen libraries of test compds. to identify therapeutically useful agonists or antagonists of GPCRs involved in disease conditions. The assays can also be used to identify ligands of "orphan" GPCRs whose natural ligands are unknown. Methods of generating indicator cells expressing GPCRs, and isolated populations of such indicator cells, are also disclosed.

IT186183-14-2

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (bioassay for G-protein coupled receptor agonists and antagonists)

ANSWER 6 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN L5

Entered STN: 05 Feb 1994

1994:46108 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 120:46108

A novel computer modeling approach to the structures

of small bioactive peptides: The structure of

gonadotropin releasing hormone

Gupta, Hema M.; Talwar, Gursaran P.; Salunke, Dinakar AUTHOR(S):

CORPORATE SOURCE:

Natl. Inst. Immunol., New Delhi, 110 067, India Proteins: Structure, Function, and Genetics (1993),

SOURCE:

TITLE:

16(1), 48-56

CODEN: PSFGEY; ISSN: 0887-3585

DOCUMENT TYPE: Journal LANGUAGE: English

A novel computer modeling approach suitable for the structure anal. of small bioactive peptides has been developed. This approach involves identification of conformational patterns in protein structure data bank based on the sequence homol. with the bioactive peptide. The models built on the basis of this homol. and having common conformational patterns are analyzed under the structural constraints derived from the activity data of various synthetic analogs of the peptide. Application of this procedure to the gonadotropin-releasing hormone (GnRH) resulted in a library of possible structures for GnRH, 9 among which shared a common β -turn. Further anal. of the structures containing the β -turn motif, in the context of the structure-activity data, led to a model for the active conformation of GnRH. The topol. of the putative receptor binding site of the hormone is defined by a contiguous surface formed through an appropriate juxtaposition of the N-terminal pGlu1, the guanidyl group of Arg8, aromatic side chain of Trp3, and the Gly10-NH2 at the C-terminal end.

IT 39064-62-5

RL: PRP (Properties)

(conformation of, receptor-binding site in relation to)

L5 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 26 Jun 1993

ACCESSION NUMBER: 1993:247987 CAPLUS

DOCUMENT NUMBER: 118:247987

TITLE: The action of LH-releasing hormone and five analogs on

estradiol, oxytocin and vasopressin secretion by

bovine granulosa cells in culture

AUTHOR(S): Sirotkin, A. V.; Nitray, J.; Nikolajev, S. V.; Burov,

s. v.

CORPORATE SOURCE: Dep. Exp. Endocrinol., Res. Inst. Anim. Prod., Nitra,

949 92, Czech.

SOURCE: Journal of Endocrinology (1993), 136(3), 491-6

CODEN: JOENAK; ISSN: 0022-0795

DOCUMENT TYPE: Journal LANGUAGE: English

The release of oxytocin, AVP, and estradiol by bovine granulosa cells in culture was analyzed either with or without LH-RH, its agonists (cyclo[Prol,D-Phe6]LH-RH and de-(1-3,10)-[D-Ala6]LH-RH) or antagonists ([D-Phe2,D-Phe6]LH-RH, [D-Phe2,D-Phe(NH2)6]LH-RH, or cyclo[Prol,D-Phe2,D-Phe6]LH-RH). All prepns. used stimulated granulosa oxytocin and estradiol secretion. Vasopressin release was increased after all treatments with LH-RH antagonists, but not after LH-RH or its agonists. The data demonstrate a direct influence of LH-RH and its analogs on the secretion of estrogen and nonapeptide hormones by bovine granulosa cells. A comparison of the effects of LH-RH and its agonists and antagonists suggests that the action of these peptides at the hypophysial and ovarian level is relatively independent.

IT 147930-80-1

RL: BIOL (Biological study)

(estradiol and oxytocin and vasopressin secretion response to, in ovary granulosa cell)

- L5 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN
- ED Entered STN: 12 Jul 1991

ACCESSION NUMBER: 1991:401227 CAPLUS DOCUMENT NUMBER: 115:1227 Synthesis of a new cyclic analog of luliberin TITLE: Nikolaev, S. V.; Burov, S. V.; Bakharev, V. D.; AUTHOR(S): Makusheva, V. P.; Korkhov, V. V. Leningr. Gos. Univ., Leningrad, USSR CORPORATE SOURCE: Khimiya Prirodnykh Soedinenii (1990), (6), 805-10 SOURCE: CODEN: KPSUAR; ISSN: 0023-1150 DOCUMENT TYPE: Journal LANGUAGE: Russian CASREACT 115:1227 OTHER SOURCE(S): A new analog of luliberin, cyclo(Pro-Gly-Pro-His-Trp-Ser-Tyr-Gly-Leu-Arg), was synthesized and was found to stimulate ovulation in mature and infantile rats and to improve learning and memory, to increase the pain threshold, to attenuate emotional-affective behavior, to increase aggressiveness, and to impair appetite, and to inhibit development of alcoholism in rats. 134346-41-1P ITRL: SPN (Synthetic preparation); PREP (Preparation) (preparation and behavioral and ovulatory effects of) ANSWER 9 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN Entered STN: 01 May 1987 ACCESSION NUMBER: 1987:131912 CAPLUS DOCUMENT NUMBER: 106:131912 Dynamics of LHRH binding to human term placental cells TITLE: from normal and anencephalic gestations Belisle, Serge; Lehoux, Jean Guy; Bellabarba, Diego; AUTHOR(S): Gallo-Payet, Nicole; Guevin, Jean Francois Fac. Med., Univ. Sherbrooke, Sherbrooke, QC, J1H 5N4, CORPORATE SOURCE: Can. Molecular and Cellular Endocrinology (1987), 49(2-3), SOURCE: 195-202 CODEN: MCEND6; ISSN: 0303-7207 DOCUMENT TYPE: Journal English LANGUAGE: In order to examine human placental chorionic gonadotropin [9002-61-3] AB (hCG) production, the binding of an LH-RH agonist (N-Ac-Prol, D-Leu6)-LH-RH [107265-30-5] to 3rd trimester intact placental cells from normal and anencephalic fetuses was examined In normal pregnancies, specific and saturable binding was found for both LH-RH and its analogs with 2 classes of binding sites. Association consts. were 4.7 + 105 M-1 for the low-affinity sites and 1.7 + 108 M-1 for the higher-affinity sites, and the estimated number of sites was 1.71 nmol/mg of cell protein and 2.79 pmol/mg of cell protein, resp. Preincubation with increasing concns. of LH-RH agonist induced a progressive decrease in specific binding sites, and this was manifested by a reduction in hCG production which paralleled the concentration of the agonist in preincubation buffer. Studies with placental cells from 3 anencephalic fetuses showed a decreased binding capacity for LH-RH and its agonist, when compared to normal trophoblastic cells, as well as a reduced capacity to produce hCG. Apparently, mechanisms dependent upon LH-RH binding to its receptor are required for placental hCG production in normal pregnancies. Furthermore, this investigation

suggests a role for the endocrine feto-placental milieu in the manifestation of these placental LH-RH binding sites.

IT 107265-30-5

RL: BIOL (Biological study)

(placenta binding of, human chorionic gonadotropin production in relation to)

L5 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 12 May 1984

ACCESSION NUMBER: 1976:159896 CAPLUS

DOCUMENT NUMBER: 84:159896

TITLE: Inhibition of luteinizing hormone release by analogs

of luteinizing hormone-releasing hormone (LHRH) in

vitro

AUTHOR(S): Labrie, F.; Savary, M.; Coy, D. H.; Coy, E. J.;

Schally, A. V.

CORPORATE SOURCE: Cent. Hosp., Univ. Laval, Quebec, QC, Can.

SOURCE: Endocrinology (1976), 98(2), 289-94

CODEN: ENDOAO; ISSN: 0013-7227

DOCUMENT TYPE:
LANGUAGE:

Journal English

AB Sixteen synthetic analogs of LH-releasing hormone (LHRH) [33515-09-2] were tested for their ability to inhibit the stimulaton of LH [9002-67-9] release induced by 3 + 10-9M LHRH in anterior pituitary cells in monolayer culture. Half-maximum inhibition of LHRH-induced LH release was obtained with 7 analogs at concns. which ranged from 3 + 10-6M to 3 + 10-5M. None of these 7 analogs had significant LH-releasing activity at concns. up to 10-5M. Nine analogs had no detectable antagonistic activity when tested in up to a 3000-fold molar ratio of

IT 52162-73-9

RL: BIOL (Biological study)

(LH release induction by LH-releasing hormones antagonism by)

L5 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 12 May 1984

ACCESSION NUMBER: 1975:531923 CAPLUS

DOCUMENT NUMBER: 83:131923

analog to LHRH.

TITLE: Peptides. LI. Application of the solid phase

synthesis for the preparation of proline analogs of LH

and FSH releasing hormone

AUTHOR(S): Yajima, Haruaki; Kurobe, Masayuki; Yo, Ikuko; Fujii,

Nobutaka; Baba, Yoshihiko

CORPORATE SOURCE: Fac. Pharm. Sci., Kyoto Univ., Kyoto, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1975), 23(7),

1622-4

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE:

Journal

LANGUAGE: English

AB Solid phase synthesis was used to prepare LH-FSH-RH analogs in which each constituent amino acid residue was systematically replaced by proline.

The samples thus prepared after partial purification, were submitted to biol.

assay. However, none of the inactive peptide, hopefully an inhibitor, was found in these analogs.

IT 39064-62-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and biological activity of)

ANSWER 12 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

12 May 1984 Entered STN:

ACCESSION NUMBER: 1975:133216 CAPLUS

DOCUMENT NUMBER: 82:133216

TITLE: Enzymic mechanisms for the inactivation of luteinizing

hormone-releasing hormone (LH-RH)

Marks, Neville; Stern, Frederic AUTHOR(S):

New York State Res. Inst. Neurochem. Drug Addict., CORPORATE SOURCE:

Ward's Island, NY, USA

Biochemical and Biophysical Research Communications SOURCE:

(1974), 61(4), 1458-63

CODEN: BBRCA9; ISSN: 0006-291X

DOCUMENT TYPE: Journal LANGUAGE: English

Study of the breakdown of LH-RH (pyro Glu-His-Trp-Ser-Tyr-Gly-Leu-Arg-Pro-Gly NH2) [33515-09-2] and its analogs provided a basis for predicting biol. activity. The preferential release of internal amino acids (Ser, Tyr, Gly, Leu) by an endopeptidase present in rat brain was blocked by substitution of glycine at position 6 with D-Ala and sarcosine. C-terminal inactivation by a second slower enzyme was blocked by replacement of Gly on position 10 by ethylamide. The analog (D-Ala6, ethylamide10)-LHRH [54797-49-8] is thus the most stable in brain exts. and has one of the highest biol. activities in vivo, compared to LH-RH. The analog cleaved the most rapidly, (Gly.OH10)-LH-RH [35263-73-1], has no biol. activity.

IT39064-62-5

> RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process) (metabolism of, by brain)

ANSWER 13 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN L5

Entered STN: 12 May 1984

1974:433629 CAPLUS ACCESSION NUMBER:

81:33629 DOCUMENT NUMBER:

Synthesis and biological activity of some analogs of TITLE:

the gonadotropin releasing hormone

Arnold, W.; Flouret, G.; Morgan, R.; Rippel, R.; AUTHOR(S):

White, W.

CORPORATE SOURCE: Div. Antibiot. Nat. Prod., North Chicago, IL, USA SOURCE:

Journal of Medicinal Chemistry (1974), 17(3), 314-19

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal English LANGUAGE:

A series of 21 analogs of synthetic gonadotropin releasing hormone (pyroGlu-His-Trp-Ser-Tyr-Gly-Leu-Arg-Pro-Gly-NH2)(I) [33515-09-2] was prepared by the solid-phase method, characterized by chemical and phys. methods, and assayed in vitro for release of LH [9002-67-9] and FSH [9002-68-0] using rat pituitaries. The N-terminal pyroglutamic acid residue is important to bioactivity due to specific spatial structure. Substitution for the histidine in position 2 or the tyrosine in position 5 resulted in marked loss in activity. Activity in relation to peptide chain shortening or substitution is discussed.

IT 39064-62-5P

> 571-272-2528 Searcher : Shears

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and FSH and LH releasing activity of) IT 51988-49-9P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) ANSWER 14 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN Entered STN: 12 May 1984 ACCESSION NUMBER: 1974:146518 CAPLUS 80:146518 DOCUMENT NUMBER: Synthesis and biological properties of [D-Ala6, TITLE: des-Gly-NH26]-LH-RH ethylamide, a peptide with greatly enhanced LH- and FSH-releasing activity Coy, David H.; Coy, Esther J.; Schally, Andrew V.; AUTHOR(S): Vilchez-Martinez, Jesus; Hirotsu, Yoshihiro; Arimura, Akira Veterans Adm. Hosp., New Orleans, LA, USA CORPORATE SOURCE:

SOURCE: Biochemical and Biophysical Research Communications

(1974), 57(2), 335-40

CODEN: BBRCA9; ISSN: 0006-291X

DOCUMENT TYPE: Journal LANGUAGE: English

AB A nonapeptide analog of luteinizing hormone-releasing hormone (LH-RH), [D-Ala6, des-Gly-NH210]-LH-RH ethylamide, was prepared by solid-phase methodology. The peptide was assayed against LH-RH in two in vivo systems and was many times more potent than the naturally occurring hormone. In one of the tests, based on elevation of LH and FSH levels after infusion into immature male rats, the analog showed LH-releasing activity of 1600% and FSH-releasing activity of 1200% compared to LH-RH.

IT 52162-73-9P

RL: PREP (Preparation)

(synthesis and biol. properties of)

L5 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 12 May 1984

ACCESSION NUMBER: 1974:91413 CAPLUS

DOCUMENT NUMBER: 80:91413

TITLE: Neuroendocrine relations in farm animals. Review

AUTHOR(S): Convey, E. M.

CORPORATE SOURCE: Anim. Reprod. Lab., Michigan State Univ., East

Lansing, MI, USA

SOURCE: Journal of Animal Science (Savoy, IL, United States)

(1973), 37(3), 745-57

CODEN: JANSAG; ISSN: 0021-8812

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review, with 106 refs., of effects of synthetic gonadotropin-releasing hormone [39064-62-5] and synthetic thyrotropin-releasing hormone

[24305-27-9] in farm animals and their potential application to problems of animal agriculture.

L5 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 12 May 1984

ACCESSION NUMBER: 1973:124875 CAPLUS

DOCUMENT NUMBER: 78:124875

TITLE: Syntheses and biological activities of analogs of

luteinizing hormone-releasing hormone (LH-RH) substituted in position 1 or 2 Yanaihara, N.; Tsuji, K.; Yanaihara, C.; Hashimoto, AUTHOR(S): T.; Kaneko, T.; Oka, H.; Arimura, A.; Schally, A. V. Shizuoka Coll. Pharm., Sizuoka, Japan CORPORATE SOURCE: Biochemical and Biophysical Research Communications SOURCE: (1973), 51(1), 165-73 CODEN: BBRCA9; ISSN: 0006-291X DOCUMENT TYPE: Journal LANGUAGE: English Syntheses are described of [Prol]-LH-RH, [Orotic acid1]-LH-RH, [Glu1]-LH-RH (I), [Ser2]-LH-RH, [Leu2]-LH-RH, [Gln2] LH-RH and [Phe2]-LH-RH, (II). The LH-RH activity of each of these peptides was compared with that of natural LH-RH in vivo. I and II had significant LH-RH activity, while all the other analog possessed extremely low activities. These findings are briefly discussed in the of the structure-activity relationship for LH-Rh. IT40291-19-8P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) ANSWER 17 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN Entered STN: 12 May 1984 1973:16464 CAPLUS ACCESSION NUMBER: 78:16464 DOCUMENT NUMBER: Syntheses and biological activities of analogs of TITLE: luteinizing hormone releasing hormone (LH-RH) Fujino, M.; Kobayashi, S.; Obayashi, M.; Fukuda, T.; AUTHOR(S): Shinagawa, S.; Yamazaki, I.; Nakayama, R.; White, W. F.; Rippel, R. H. Cent. Res. Div., Takeda Chem. Ind., Ltd., Osaka, Japan CORPORATE SOURCE: SOURCE: Biochemical and Biophysical Research Communications (1972), 49(3), 698-705 CODEN: BBRCA9; ISSN: 0006-291X DOCUMENT TYPE: Journal English LANGUAGE: Twenty analogs of luteinizing hormone releasing hormone (LHRH or pGlu-His-Trp-Ser-Tyr-Gly-Leu-Arg-Pro-Gly-NH2), i.e., (2-oxo-4oxazolidinecarboxylic acid)1, (2-oxo-5-methyl-4-oxazolidinecarboxylic acid)1, Prol, Phe2, (3-Me-His)2, Lys2, Arg2, Ala4, Thr4, Gln4, (2-Cl-Tyr)5, (2,6-di-Cl-Tyr)5, Gly7, Ala7, Val7, Ile7, Nle7, Lys8, Orn8, and Ala10, were synthesized by the fragment condensation method. Biol. properties of these decapeptide amides were studied and structure-activity

IT 39064-62-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and biol. activity of)

E1 THROUGH E12 ASSIGNED

relations were discussed.

FILE 'REGISTRY' ENTERED AT 15:25:34 ON 01 FEB 2005

12 SEA FILE=REGISTRY ABB=ON PLU=ON (39064-62-5/BI OR 52162-73-9/BI OR 654640-87-6/BI OR 107265-30-5/BI OR 134346-41-1/BI OR 147930-80-1/BI OR 186183-14-2/BI OR 40291-19-8/BI OR 474781-67-

4/BI OR 51988-49-9/BI OR 691364-89-3/BI OR 691364-91-7/BI)

L7 12 L4 AND L6

L7 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 691364-91-7 REGISTRY
CN Glycine, L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-L-cysteinyl-L-leucyl-L-arginyl-L-prolyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 5: PN: WO2004041151 SEQID: 5 unclaimed sequence

SQL 10

SEQ 1 PHWSYCLRPG

HITS AT: 1-9

REFERENCE 1: 140:423952

L7 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 691364-89-3 REGISTRY

CN Glycine, L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosylglycyl-L-leucyl-L-arginyl-L-prolyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3: PN: WO2004041151 SEQID: 3 unclaimed sequence

SQL 10

SEQ 1 PHWSYGLRPG

HITS AT: 1-9

RELATED SEQUENCES AVAILABLE WITH SEQLINK

REFERENCE 1: 140:423952

L7 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN **654640-87-6** REGISTRY

CN L-Proline, L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-L-tryptophyl-L-leucyl-L-arginyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3: PN: US20040022739 SEQID: 3 unclaimed sequence CN 3: PN: US20040023867 SEQID: 3 unclaimed sequence

SQL 9

SEQ 1 PHWSYWLRP

========

HITS AT: 1-9

REFERENCE 1: 140:169637

REFERENCE 2: 140:157932

L7 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN

RN 474781-67-4 REGISTRY

CN L-Proline, L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-L-tyrosyl-L-leucyl-L-arginyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3: PN: W002087616 PAGE: 31 unclaimed sequence SQL 9 SEQ 1 PHWSYYLRP _____ HITS AT: 1-9 REFERENCE 1: 137:358129 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN 186183-14-2 REGISTRY RNGlycine, 3-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-Dhistidyl-L-leucyl-L-arginyl-L-prolyl- (9CI) (CA INDEX NAME) SQL 1 PHWSYHLRPG SEQ ======== HITS AT: 1-9 REFERENCE 1: 126:113155 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN L7 RN 147930-80-1 REGISTRY Luteinizing hormone-releasing factor (swine), 1-L-proline-6-D-CN phenylalanine-10-glycine-, cyclic (10→1)-peptide (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: Dipyrrolo[1,2-a:1',2'-g][1,4,7,10,13,16,19,22,25,28]decaazacyclotriacontin CN e, cyclic peptide deriv. Luteinizing hormone-releasing factor (pig), 1-L-proline-6-D-phenylalanine-CN 10-glycine-, cyclic (10→1)-peptide SQL 10 1 RPGPHWSYFL SEO == ====== HITS AT: 1-2, 4-10REFERENCE 1: 118:247987 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN L7 134346-41-1 REGISTRY RNLuteinizing hormone-releasing factor (swine), 1-L-proline-10-glycine-, CN cyclic (10→1)-peptide (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: Dipyrrolo[1,2-a:1',2'-g][1,4,7,10,13,16,19,22,25,28]decaazacyclotriacontin e, cyclic peptide deriv. Luteinizing hormone-releasing factor (pig), 1-L-proline-10-glycine-, CN cyclic (10→1)-peptide SQL 10 1 RPGPHWSYGL SEQ == ====== 1-2, 4-10 HITS AT: 1: 115:1227 REFERENCE

ANSWER 8 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN L7 107265-30-5 REGISTRY RN Luteinizing hormone-releasing factor (swine), 1-(1-acetyl-L-proline)-6-D-CN leucine- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: Luteinizing hormone-releasing factor (pig), 1-(1-acetyl-L-proline)-6-Dleucine-SQL 10 1 PHWSYLLRPG SEQ ======= HITS AT: 1 - 91: 106:131912 REFERENCE ANSWER 9 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN L7RN 52162-73-9 REGISTRY Luteinizing hormone-releasing factor (swine), 1-L-proline-6-D-alanine-9-(N-CN ethyl-L-prolinamide)-10-deglycinamide- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: Luteinizing hormone-releasing factor (pig), 1-L-proline-6-D-alanine-9-(Nethyl-L-prolinamide) -10-deglycinamide-OTHER NAMES: [Pro1, D-Ala6, des-Gly-NH210] LHRH ethylamide CN SQL SEQ 1 PHWSYALRP ======= 1-9 HITS AT: **RELATED SEQUENCES AVAILABLE WITH SEQLINK** REFERENCE 1: 84:159896 REFERENCE 2: 80:146518 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN L7 RN 51988-49-9 REGISTRY CN Luteinizing hormone-releasing factor (swine), 1-[1-[(1,1dimethylethoxy) carbonyl]-L-proline]-4-[O-(phenylmethyl)-L-serine]-5-[O-(phenylmethyl)-L-tyrosine]-8-[N5-[imino[[(4-methylphenyl)sulfonyl)amino]me thyl]-L-ornithine]- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: Luteinizing hormone-releasing factor (pig), 1-[1-[(1,1dimethylethoxy) carbonyl]-L-proline]-4-[O-(phenylmethyl)-L-serine]-5-[O-(phenylmethyl)-L-tyrosine]-8-[N5-[imino[[(4-methylphenyl)sulfonyl)amino]me thyl]-L-ornithine]-SQL 10 SEO 1 PHWSYGLRPG HITS AT: 1-9 **RELATED SEQUENCES AVAILABLE WITH SEQLINK** REFERENCE 1: 81:33629

Shears

571-272-2528

Searcher :

```
ANSWER 11 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
L7
    40291-19-8 REGISTRY
RN
    Luteinizing hormone-releasing factor (swine), 1-L-proline-, triacetate
CN
     (salt) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
    Luteinizing hormone-releasing factor (pig), 1-L-proline-, triacetate
     (salt)
SOL 10
        1 PHWSYGLRPG
SEO
HITS AT:
          1-9
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
REFERENCE 1: 78:124875
    ANSWER 12 OF 12 REGISTRY COPYRIGHT 2005 ACS on STN
L7
    39064-62-5 REGISTRY
RN
    Luteinizing hormone-releasing factor (swine), 1-L-proline- (9CI) (CA
    INDEX NAME)
OTHER CA INDEX NAMES:
    Luteinizing hormone-releasing factor (pig), 1-L-proline-
CN
CI
    COM
SQL 10
SEQ
         1 PHWSYGLRPG
           _____
HITS AT:
           1-9
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
           1: 120:46108
REFERENCE
REFERENCE
           2: 83:131923
          3: 82:133216
REFERENCE
REFERENCE
          4: 81:33629
REFERENCE 5: 80:91413
REFERENCE
            6: 78:16464
     (FILE 'MEDLINE, BIOSIS, EMBASE' ENTERED AT 15:26:15 ON 01 FEB 2005)
L8
              0 S L7
     (FILE 'REGISTRY' ENTERED AT 15:26:40 ON 01 FEB 2005)
               E LHRH/CN 5
               E "LUTEINIZING HORMONE-RELEASING HORMONE"/CN 5
              9 S "LUTEINIZING HORMONE-RELEASING HORMONE"?/CN
L9
               E "LH-RH"/CN 5
L10
              5 S E3-7
             12 S L9 OR L10
L11
```

E "STYRENE-DIVINYLBENZENE"/CN 5

L14	1	S	E4-6

	FILE 'CAPLUS	S' ENTERED AT	15:31:24 ON	01 FEB	2005	
L9	9 \$	SEA FILE=REGIS	STRY ABB=ON	PLU=ON	"LUTEINIZING	HORMONE-RELEASIN
	(G HORMONE"?/CN	I			
L10	5 \$	SEA FILE=REGIS	TRY ABB=ON	PLU=ON	(LH-RH/CN OR	"LH-RH (1-3)"/CN

L10 5 SEA FILE=REGISTRY ABB=ON PLU=ON (LH-RH/CN OR "LH-RH (1-3)"/CN OR "LH-RH (1-6)"/CN OR "LH-RH (1-9)"/CN OR "LH-RH (SWINE)"/CN)

L11 12 SEA FILE=REGISTRY ABB=ON PLU=ON L9 OR L10

L12 20892 SEA FILE=CAPLUS ABB=ON PLU=ON L11 OR (LH OR LUTEIN? HORMON?) (
W) (RH OR RELEAS? HORMON?) OR LHRH

L14 1 SEA FILE=REGISTRY ABB=ON PLU=ON ("STYRENE-DIVINYLBENZENE COPOLYMER"/CN OR "STYRENE-DIVINYLBENZENE POLYMER"/CN OR "STYRENE-DIVINYLBENZENE RESIN"/CN)

L16 9 SEA FILE=CAPLUS ABB=ON PLU=ON L12 AND (L14 OR STYRENE(W)(DIVINYLBENZENE OR DIVINYL BENZENE) OR DIVINYL BENZENE))

L9 9 SEA FILE=REGISTRY ABB=ON PLU=ON "LUTEINIZING HORMONE-RELEASIN G HORMONE"?/CN

L10 5 SEA FILE=REGISTRY ABB=ON PLU=ON (LH-RH/CN OR "LH-RH (1-3)"/CN OR "LH-RH (1-6)"/CN OR "LH-RH (1-9)"/CN OR "LH-RH (SWINE)"/CN)

L11 12 SEA FILE=REGISTRY ABB=ON PLU=ON L9 OR L10

L12 20892 SEA FILE=CAPLUS ABB=ON PLU=ON L11 OR (LH OR LUTEIN? HORMON?) (
W) (RH OR RELEAS? HORMON?) OR LHRH

'L17 4 SEA FILE=CAPLUS ABB=ON PLU=ON L12 AND (ADSORPT? OR METHACRYLI C OR AROMATIC? OR AROM) (S) RESIN

L18 12 L16 OR L17

=> s 118 not 15

L19 12 L18 NOT L5

L19 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 16 Sep 2004

ACCESSION NUMBER: 2004:756043 CAPLUS

DOCUMENT NUMBER: 141:266047

TITLE: Medical implants coated with biocompatible

carbon-containing layers

PATENT ASSIGNEE(S): Blue Membranes GmbH, Germany

SOURCE: Ger. Gebrauchsmusterschrift, 23 pp.

CODEN: GGXXFR

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-			
DE 202004009060	U1	20040916	DE 2004-202004009060	20040510
DE 10322182	A1	20041202	DE 2003-10322182	20030516
DE 10324415	A1	20041216	DE 2003-10324415	20030528

PRIORITY APPLN. INFO.: DE 2003-10322182 A1 20030516 DE 2003-10324415 A1 20030528

DE 2003-10333098 A1 20030721

The invention concerns medical implants that are coated with biocompatible AΒ carbon-layers composed; the layers are prepared by (a) at least partial covering or coating of a medical implant with a polymer film; (b) heating the polymer film to 2000-2500°C in an oxygen-free atmospheric The medical device is prepared from carbon, carbon-composite material, glass, ceramics, glass fibers, carbon fibers, metals, stainless steel, titanium, tantalum, platinum, nitinol, alloys, artificial bone, minerals, and their combinations; during heat treatment they are transferred in their heat-stable modifications. Artificial blood vessels, stents, coronary stents, peripheral stents, orthopedic implants, artificial hearts and heart valves, artificial bones and joints are prepared Polymers are applied by conventional coating techniques, e.g. from polymer solns.; carbon and silicon can be deposited in a PVD or CVD process. The biocompatible carbon layer can be coated with a bioresorbant or biodegradable polymer layer, e.g. polylactide. The implants can be loaded with drugs, microorganisms or cells.

IT 33515-09-2, Gonadorelin

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (medical implants coated with biocompatible carbon-containing layers)

L19 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 19 Nov 2002

ACCESSION NUMBER: 2002:876411 CAPLUS

DOCUMENT NUMBER: 138:234290

TITLE: Integration of solid-ph

Integration of solid-phase extraction membranes for sample multiplexing: Application to rapid protein identification from gel-isolated protein extracts

AUTHOR(S): Bonneil, Eric; Li, Jianjun; Tremblay, T.-L.; Bergeron,

John J.; Thibault, Pierre

CORPORATE SOURCE: Institute for Biological Sciences, National Research

Council, Ottawa, ON, Can.

SOURCE: Electrophoresis (2002), 23(20), 3589-3598

CODEN: ELCTDN; ISSN: 0173-0835 Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal LANGUAGE: English

AB The present report describes the design and application of a dual sprayer system for high-throughput proteome anal. This system comprises parallel solid-phase extraction cartridges used for preconcn. and desalting of proteolytic digests prior to nanoelectrospray mass spectrometry analyses. Tryptic peptides from in-gel digest of protein bands/spots are first adsorbed on styrene divinyl benzene membrane

and subsequently eluted with a short plug of organic buffer prior to infusion

to the mass spectrometer at a flow rate of typically 500 nL/min. Tryptic peptide eluting from the membrane are analyzed by the mass spectrometer by moving in turn each sprayer in front of the sampling orifice. Sequential injection, preconcn. and analyses of tryptic digests are typically achieved with a throughput of up to 3.5 min/sample and a detection limit of approx. 8-80 fmol per injection. Replicate injections of peptide mixts. indicated that reproducibility of peak areas ranged from relative standard deviations (RSD) of 1.1% to 4.5%. The application of this device

PUBLISHER:

demonstrated for digests of gel-isolated proteins obtained from SDS-PAGE (SDS-PAGE) separation of rat liver plasma membrane and from two-dimensional gel

electrophoresis of total cell lysate exts. from human prostatic cancer cell.

9034-40-6, LHRH IT

RL: ANT (Analyte); ANST (Analytical study)

(integration of solid-phase extraction membranes for sample multiplexing) THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

Entered STN: 18 Apr 2002

2002:287176 CAPLUS ACCESSION NUMBER:

137:30136 DOCUMENT NUMBER:

Surface-alkylated polystyrene monolithic columns for TITLE:

peptide analysis in capillary liquid

chromatography-electrospray ionization mass

spectrometry

Huang, Xian; Zhang, Sheng; Schultz, Gary A.; Henion, AUTHOR(S):

Jack

Advion BioSciences Inc., Ithaca, NY, 14850, USA CORPORATE SOURCE:

Analytical Chemistry (2002), 74(10), 2336-2344 SOURCE:

CODEN: ANCHAM; ISSN: 0003-2700

American Chemical Society PUBLISHER:

DOCUMENT TYPE: Journal

English LANGUAGE:

Macroporous poly(styrene-divinylbenzene) (PS-DVB)

monoliths were prepared by in situ polymerization in PEEK, fused silica, or stainless steel tubing having an inner diameter of 75 or 125 μm . A process is described for subsequent alkylation of the flow-contacting surfaces of the monoliths. The process treats all the surfaces including through-pore standard surfaces of the rigid macroporous monolith with a solution

containing a dissolved Friedel-Crafts catalyst, an alkyl halide (1-chlorooctadecane), and an organic solvent. This process produces an improved reversed-phase liquid chromatog. separation of peptides compared

unmodified monolithic PS-DVB column. The surface octadecylation is not necessary for a reversed-phase separation of proteins since both unmodified and

modified columns provide comparable results. Tryptic protein digests, standard proteins, and standard peptides were used to evaluate the monolithic

columns by employing electrospray mass spectrometry detection. Potential applications in proteomics studies by mass spectrometry, which use the alkylated monolithic column engaged onto the nanofabricated electrospray ionization chip, are also discussed.

IT 9034-40-6, Luteinizing hormone

releasing hormone

RL: ANT (Analyte); ANST (Analytical study)

(surface-alkylated polystyrene monolithic columns for peptide anal. in capillary liquid chromatog. - electrospray ionization mass spectrometry)

9003-70-7D, reaction products with octadecyl chloride IT RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process); USES (Uses)

> 571-272-2528 Searcher : Shears

(surface-alkylated polystyrene monolithic columns for peptide anal. in capillary liquid chromatog.-electrospray ionization mass spectrometry) 9003-70-7, Divinylbenzene-styrene copolymer IT RL: RCT (Reactant); RACT (Reactant or reagent) (surface-alkylated polystyrene monolithic columns for peptide anal. in capillary liquid chromatog.-electrospray ionization mass spectrometry) THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 15 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L19 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN Entered STN: 12 Jan 2001 2001:31529 CAPLUS ACCESSION NUMBER: 134:101194 DOCUMENT NUMBER: Process for the preparation of LH-RH TITLE: derivatives by chromatographic purification using synthetic methacrylic resin adsorbent INVENTOR(S): Sasaki, Yasuhiro; Shimizu, Katsuji Takeda Chemical Industries, Ltd., Japan PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 39 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent Japanese LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DATE APPLICATION NO. PATENT NO. KIND DATE ____ _____ WO 2000-JP4277 20000629 20010111 WO 2001002428 A1 W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG 20000629 CA 2000-2376763 20010111 CA 2376763 AΑ JP 2000-201434 20000629 JP 2001072700 20010321 A2 20020522 EP 2000-942386 20000629 EP 1207167 A1 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL A 19990630 JP 1999-186307 PRIORITY APPLN. INFO.: WO 2000-JP4277 W 20000629 MARPAT 134:101194 OTHER SOURCE(S): A process for the preparation of LH-RH derivs. is characterized by subjecting a solution of an LH-RH derivative to both treatment with a synthetic methacrylic resin adsorbent and that with a synthetic aromatic resin adsorbent. According to this process, the formation of byproduct impurities including racemates of LH-RH derivs. can be

Searcher : Shears : 571-272-2528

derivs. efficiently in high yields by easy operations not involving

suppressed and such impurities can be efficiently removed, which enables

quality. Further, the process attains satisfactory purification effectively

the production of LH-RH derivs. having extremely high

through the two treatment steps and can give LH-RH

troublesome solid-liquid separation. Thus, an aqueous solution $(5,600\ g)$ containing $85.46\ g$

leuprolide acetate was passed through a column of a methacrylic resin adsorbent (HP2MG, Mitsubishi Chemical Corp., Yokohama, Japan) (5,500 mL), followed successively washing the column with 0.3 M aqueous AcONa

(pH 6.0) (11,000 mL), 0.25 M aqueous AcONH4 (13,750 mL), 10 volume% aqueous ethanol

(19,250 mL) at 3-7°, and then eluting it with 0.05 M aqueous AcOH (19,250 mL) at 3-7° to give, after collecting the active fractions and concentration, 73.77 g leuprolide acetate (85.46 g).

IT 9003-70-7, Styrene-divinylbenzene copolymer

RL: NUU (Other use, unclassified); USES (Uses)

(chromatog. adsorbent; process for preparation of LH-RH derivs. by chromatog. purification using synthetic methacrylic and aromatic resin adsorbents)

REFERENCE COUNT:

THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 13 Aug 1998

ACCESSION NUMBER: 1998:502537 CAPLUS

DOCUMENT NUMBER:

129:136498

TITLE:

Preparation of luteinizing hormone

releasing hormone analogs

INVENTOR(S):

Shaobo, Xiao

PATENT ASSIGNEE(S):

Asta Medica Aktiengesellschaft, Germany

SOURCE:

U.S., 15 pp., Cont.-in-part of U.S. Ser. No. 265,631,

abandoned.
CODEN: USXXAM

DOCUMENT TYPE: Patent

DOCUMENT T

English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 5783562	A	19980721	US 1995-450951	19950523
	CN 1061605	A	19920603	CN 1990-108955	19901110
	CN 1036343	В	19971105		
	ZA 9108847	А	19920826	ZA 1991-8847	19911107
	CA 2095932	AA	19920511	CA 1991-2095932	19911108
	CA 2095932	С	20030225		
	HU 70166	A2	19950928	HU 1993-1353	19911108
	AT 149520	E	19970315	AT 1991-919435	19911108
	ES 2100965	Т3	19970701	ES 1991-919435	19911108
	RU 2123499	C1	19981220	RU 1993-4994	19911108
	LV 10106	В	19950420	LV 1992-175	19921027
	LT 3971	В	19960527	LT 1993-1513	19931203
PRIO	RITY APPLN. I	NFO.:		CN 1990-108955	A 19901110
			,	us 1991-789730	B1 19911112
		•		US 1994-265631	B2 19940624

OTHER SOURCE(S): MARPAT 129:136498

AB A method is provided for the design and synthesis of LHreleasing hormone (LHRH) antagonists, e.g.
Ac-D-2Nal-D-pClPhe-AA3-Ser-AA5-D-3Pal-Leu-AA8-Pro-D-Ala-NH2 [I; 2Nal =

3-(2-naphthyl)alanine; pClPhe = 4-chlorophenylalanine; AA3 = D-Phe, 3-(3-pyridyl)alanine (D-3Pal); AA5 = Arg, 4-(4-morpholinylmethyl)-Lphenylalanine (Mop); AA8 = Arg, 4-(dipropylaminomethyl)-L-phenylalanine], having exact amino acid sequences and containing 5-100 amino acids. This method can be used to produce peptides useful in treating disorders of the reproductive endocrine system, including endometriosis, precocious puberty, prostate cancer and breast cancer. Addnl., peptides produced by this method can be used as contraceptives for either males or females. Peptides produced by this method can further be employed in the diagnosis and treatment of infertility. Thus, nonnatural aromatic amino acids were prepared and coupled via solid-phase methods on a benzhydrylamine resin to produce a number of decapeptide amides, including I (AA3 = D-3Pal, AA5 = Mop, AA8 = Arg) (II). Decapeptide amide II showed 100% antiovulatory activity at 1.0 μ g, and ED50 = 14.7 μ g/mL for histamine release activity.

9034-40-6DP, LH-RH, analogs

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of LH releasing hormone analogs)

THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 21 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

Entered STN: 24 Apr 1998

ACCESSION NUMBER: 1998:231279 CAPLUS

DOCUMENT NUMBER: 128:275148

Pharmaceutical preparation for intranasal TITLE:

administration

Igarashi, Rie; Takenaga, Mitsuko; Muramatsu, Hiroshi; INVENTOR(S):

Ebata, Tetsuo; Kosaka, Yasuo

Fuji Yakuhin Co., Ltd., Japan PATENT ASSIGNEE(S): Ger. Offen., 14 pp. SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19740733	A1	19980409	DE 1997-19740733	19970916
JP 10114645	A2	19980506	JP 1996-282866	19961007
JP 3020141	B2	20000315		
FI 9703244	Α	19980408	FI 1997-3244	19970806
SE 9703133	A	19980408	SE 1997-3133	19970829
US 5948749	A	19990907	US 1997-922775	19970903
GB 2322077	A1	19980819	GB 1997-18690	19970904
ES 2126536	A1	19990316	ES 1997-1891	19970905
ES 2126536	B1	19991001		
AU 9739926	A1	19980409	AU 1997-39926	19971003
FR 2754453	A1	19980417	FR 1997-12321	19971003
CA 2217409	AA	19980407	CA 1997-2217409	19971006
NO 9704618	Α	19980408	NO 1997-4618	19971006
CN 1180569	A	19980506	CN 1997-120047	19971006
DK 9701147	A	19980408	DK 1997-1147	19971007

PRIORITY APPLN. INFO.:

JP 1996-282866 A 19961007

AB A dry powdered inhalant preparation with improved active agent absorption rate and

decreased irritancy contains a bioactive peptide and a powdered adsorbent carrier resin which binds the peptide electrostatically. Thus, to 100 g dry insulin powder (.apprx.25 U/mg) was added in portions 900 g dry styrene-divinylbenzene copolymer resin (mean particle size 30 µm) and 20 g Mg stearate (lubricant), and the composition was thoroughly mixed and dispensed in 20-mg portions into hard gelatin capsules for intranasal administration with a pulverizer.

IT 9034-40-6, LH-RH

> RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(pharmaceutical preparation for intranasal administration)

IT 9003-70-7, Styrene-divinylbenzene copolymer

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceutical preparation for intranasal administration)

L19 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

Entered STN: 30 Oct 1996 ED

1996:639383 CAPLUS ACCESSION NUMBER:

126:8632 DOCUMENT NUMBER:

Comparison of different substituted . TITLE:

4-benzyloxytritylamine linkers for solid phase

synthesis of peptide amides

Meisenbach, M.; Gruebler, G.; Paulus, G.; Voelter, W. AUTHOR(S):

Abteilung fur Physikalische Biochemie, Universitat CORPORATE SOURCE:

Tubingen, Tuebingen, D-72076, Germany

Peptides 1994, Proceedings of the European Peptide SOURCE:

Symposium, 23rd, Braga, Port., Sept. 4-10, 1994 (1995), Meeting Date 1994, 265-266. Editor(s): Maia,

Hernani L. S. ESCOM: Leiden, Neth.

CODEN: 63MBAO

DOCUMENT TYPE: Conference

English LANGUAGE:

GΙ

$$R1$$
 H_2N-C
 OCH_2
 P

Ι

AB For Fmoc-solid phase synthesis of peptide amides, several acid-labile linkers have been developed and their applications are well established. However, the high concns. of CF3CO2H usually required for the final cleavage make them unsuitable for preparation of protected peptide amides. Therefore, linkers must be cleavable under mild conditions. In this contest, authors prepared different 4-benzyloxytritylamine linkers on styrene-divinylbenzene copolymers (I; P = polymer; R1 = R2 = H; R1 = H and R2 = OMe; R1 = R2 = OMe) for testing the coupling efficiency and cleavage conditions of these resins. The 3 supports, 4-benzyloxytritylamine I (R1 = R2 = H) (II), 4-benzyloxy-4'- methoxytritylamine I (R1 = H, R2 = OMe) (III), and 4-benzyloxy-4',4''dimethoxytritylamine resin I (R1 = R2 = OMe) (IV) were prepared in 4 steps by staring from the Merrifield resin. Fmoc-Gly-OH was attached to the resins and then the peptide amide LH/FSH-RH [pGlu-His(Trt)-Trp(Boc)-Ser(tBu)-Tyr(tBu)-Gly-Leu-Arg(Pmc)-Pro-Gly-NH2] was prepared using the Fmoc-/tBu strategy and an ECOSYN P batch peptide synthesizer (Eppendorf/Biotronik, Maintal, Germany). The peptides were cleaved by CF3CO2H/EDT/thioanisole/H2O (9.5:1.5:0.5) to give the desired peptide amide in high yields 86, 90, and 94% for II, III, and IV, resp. and high purity 72, 93.5, and 92.5% for II, III, and IV, resp. The use of the highly acid-labile resin IV allows the preparation of protected peptide amides.

The approach presented here might be also a valuable method to incorporate reporter groups like fluorescent labels or radioactive markers, leading to derivs. for the study of the biol. function of the parent or derivatized peptide amides.

IT 9003-70-7D, chloromethylated

RL: RCT (Reactant); RACT (Reactant or reagent)

(comparison of different substituted 4-benzyloxytritylamine linkers-containing support for solid phase synthesis of peptide amides)

9003-70-7DP, chloromethylated, 4-benzyloxytritylamine derivs.

33515-09-2P, Luteinizing hormone-releasing factor (pig)

RL: SPN (Synthetic preparation); PREP (Preparation)

(comparison of different substituted 4-benzyloxytritylamine linkers-containing support for solid phase synthesis of peptide amides)

L19 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 17 Feb 1990

ACCESSION NUMBER: 1990:56719 CAPLUS

DOCUMENT NUMBER: 112:56719

TITLE: Preparation of the ethylamide of des-Gly10, 6-D-Tle

luteinizing hormone-releasing factor (LH-

RH)

INVENTOR(S): Vagner, Josef; Krchnak, Viktor; Krojidlo, Milan

PATENT ASSIGNEE(S): Czech.

SOURCE: Czech., 3 pp.

CODEN: CZXXA9

DOCUMENT TYPE: Patent LANGUAGE: Czech

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

IT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 260642	B1	19890112	CS 1987-1256	19870225
PRIORITY APPLN. INFO.:			CS 1987-1256	19870225

AB The title peptide pGlu-His-Trp-Ser-Tyr-D-Tle-Leu-Arg-Pro-NHEt (I Tle = HNCHCMe3CO), useful as a cattle reproduction regulator (no data), was prepared by solid phase amino acid coupling on a chloromethylated polystyrene-divinylbenzene (1%) resin functionalized by EtNH2. A mixto-

polystyrene-divinylbenzene (1%) resin functionalized by EtNH2. A mixture of EtNH2 and the resin was kept 2 days at 4°; the resin was separated and used for amino acid coupling. The protected I was cleaved and deprotected with the liquid HF in the presence of p-thiocresol and Me2S to give 76.3% I (purity 96%).

9003-70-7D, Divinylbenzene-styrene copolymer, chloromethylated
RL: RCT (Reactant); RACT (Reactant or reagent)

(amination of, with ethylamine, in preparation of cattle reproduction regulating

peptidamide)

L19 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 14 Dec 1985

ACCESSION NUMBER: 1985:596400 CAPLUS

DOCUMENT NUMBER: 103:196400

TITLE: Peptide N-alkylamides by solid phase synthesis

AUTHOR(S): Kornreich, Wayne; Anderson, Harry; Porter, John; Vale,

Wylie; Rivier, Jean

CORPORATE SOURCE: Pept. Biol. Lab., Salk Inst., La Jolla, CA, 92138, USA

SOURCE: International Journal of Peptide & Protein Research

(1985), 25(4), 414-20

CODEN: IJPPC3; ISSN: 0367-8377

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 103:196400

Three new resins have been developed that allow for the solid phase synthesis of C-terminal peptide N-alkylamides using Boc amino acids, usual side chain protecting groups and HF cleavage and deprotection. These resins were prepared by reacting the appropriate alkylamine (NH2CH3, NH2CH2CH3, NH2CH2CF3) to Merrifield's 1% divinylbenzene cross-linked chloromethylated polystyrene resin. The application of these resins to the synthesis of C-terminal gonadotropin-releasing hormone (GnRH) N-alkylamides illustrates the versatility of this approach. GnRH analogs were tested for their ability to release LH from cultured rat anterior pituitary cells. [D-Glu6, Pro9-NHCH2CH3]-GnRH was synthesized for the first time using the solid phase approach and found to be three times more potent than [D-Glu6]-GnRH. Other analogs including [D-Trp6, Pro9-NHCH2CH3]-GnRH, [D-Ala6, Pro9-NHCH2CF3]-GnRH and related peptides were found to be equipotent and to have the same properties (HPLC retention times, amino acid anal. and sp. rotation) as the corresponding peptides synthesized using less amenable strategies; yields were equivalent or better than those reported earlier.

IT 9003-70-7D, chloromethylated

RL: RCT (Reactant); RACT (Reactant or reagent)

(amination of)

IT 33515-09-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and LH-releasing activity of)

IT 33515-09-2DP, methylbenzhydrylamine resin-bound

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and deprotection of)

L19 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN Entered STN: 26 May 1984 1984:175264 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 100:175264 TITLE: Styrene-divinylbenzene copolymer for peptide synthesis in a solid phase AUTHOR(S): Jerabek, Karel; Srejber, Josef; Blaha, Ivo; Zaoral, Milan Ustav Teor. Zakl. Chem. Tech., CSAV, Prague, Czech. CORPORATE SOURCE: Chemicky Prumysl (1984), 34(1), 30-3 SOURCE: CODEN: CHPUA4; ISSN: 0009-2789 DOCUMENT TYPE: Journal Czech LANGUAGE: Title solid-phase supports (particle size .apprx.0.08 mm) were prepared by chloromethylating the parent copolymer (containing 0.5-2% divinylbenzene) with ClCH2OMe in the presence of SnCl4. N-Protected amino acids were introduced onto the polymer by treatment with the corresponding Cs salt in absolute EtOH. The resins were used for solid-phase synthesis of adjuratin SD, LH-releasing hormone, and human endorphin. 9003-70-7DP, chloromethylated IT RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as support for solid-phase peptide synthesis) IT 9034-40-6P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, by solid-phase method) L19 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN Entered STN: 12 May 1984 ACCESSION NUMBER: 1982:616696 CAPLUS DOCUMENT NUMBER: 97:216696 Two new methods for the solid phase synthesis of TITLE: protected peptides. Synthesis of apamin and LHRH protected fragments Pedroso, Enrique; Albericio, Fernando; Grandas, Ana; AUTHOR(S): Giralt, Ernest; Van Rietschoten, Jurphaas; Granier, Claude Fac. Quim., Univ. Barcelona, Barcelona, Spain CORPORATE SOURCE: Pept., Proc. Eur. Pept. Symp., 16th (1981), Meeting SOURCE: Date 1980, 334-8. Editor(s): Brunfeldt, K. Scriptor: Copenhagen, Den. CODEN: 48NWA3 DOCUMENT TYPE: Conference English LANGUAGE: The solid phase synthesis of the the title peptides involved cleavage of the peptide-resin bond under conditions in which α -amino and side chain protecting groups are stable. The protected 1-6 fragment of apamin Boc-Cys (Acm) -Asn-Cys (Acm) -Lys (Z) -Ala-Pro-OH (Boc = Me3CO2C, Acm = AcNHCH2,

Searcher : Shears 571-272-2528

support and photolytic cleavage of the peptidyl-resin bond. The 7-18 apamin fragment was assembled stepwise on a benzhydrylamine resin and coupled to the 1-6 fragment. The synthesis of LHRH involved the use of 4-hydroxymethylphenyloxymethyl resin, fluorenylmethoxycarbonyl

Z = PhCH2O2C) was prepared on a $\alpha-[4-(bromomethyl)-3-nitrobenzamido]benzylcopoly(styrene-divinylbenzene)$

 α -amino protection and standard HF-labile side chain protecting groups. The protected peptides are cleared from the resin by 55% CF3CO2H. IT 9034-40-6P RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (solid phase synthesis of) ANSWER 12 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN Entered STN: 12 May 1984 ACCESSION NUMBER: 1980:211273 CAPLUS DOCUMENT NUMBER: 92:211273 Iodine-125-labeled gonadoliberin of high specific TITLE: activity and immunoreactivity: method of iodination and rapid separation Sarda, A. K.; Barnes, M. A.; Nair, R. M. AUTHOR(S): Res. Serv., VA Med. Cent., Charleston, SC, 29403, USA CORPORATE SOURCE: Clinical Chemistry (Washington, DC, United States) SOURCE: (1980), 26(5), 573-8CODEN: CLCHAU; ISSN: 0009-9147 DOCUMENT TYPE: Journal English LANGUAGE: Optimum conditions for iodinating gonadoliberin with relatively large AB proportions of Na125I are described. Products of the iodination are separated on an anion-exchange resin (Amberlite IRa-400). The 125I-labeled qonadoliberin thus obtained has a high sp. activity (1400 to 1590 Ci/g); because of the conditions of iodination, it is believed that the predominant species of the labeled decapeptide is the mono-iodinated one. The separation and purification of the labeled substance on ion-exchange resin is rapid, economical, and less cumbersome than the use of a Biogel P-2 column. There is no adsorption of the labeled hormone onto the resin, as evidenced by anal. recovery studies with 3H-labeled gonadoliberin. Paper-strip chromatoelectrophoresis showed no free Na125I or radiolabeled damaged peptide fragments after purification on the resin. When antiserum was used at a concentration 32-fold that used in the regular procedure, only 4% of the radioactivity remained in the free form, indicating the high immunoreactivity of the labeled hormone. 9034-40-6 TT RL: RCT (Reactant); RACT (Reactant or reagent) (iodination of, with iodine-125) (FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS, JAPIO' ENTERED AT 15:37:19 ON 01 FEB 2005) L20 2 S L16 L21 6 S L17 L22 7 S L20 OR L21 L23 7 DUP REM L22 (0 DUPLICATES REMOVED) L23 ANSWER 1 OF 7 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN WPIDS 2001-091796 [10] ACCESSION NUMBER: DOC. NO. CPI: C2001-027143 TITLE: Preparation of LH-RH derivatives e.g. leuprolide by treating with resin adsorbents to suppress and remove by-products including racemates efficiently,

Searcher : Shears 571-272-2528

in excellent quality and high yield, for treatment of

hormone-dependent diseases.

DERWENT CLASS:

A96 B04

INVENTOR(S):

SASAKI, Y; SHIMIZU, K

PATENT ASSIGNEE(S):

(TAKE) TAKEDA CHEM IND LTD

COUNTRY COUNT:

94

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LΑ	PG

WO 2001002428 A1 20010111 (200110)* JA 39

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

W: AE AG AL AM AU AZ BA BB BG BR BY BZ CA CN CR CU CZ DM DZ EE GD GE HR HU ID IL IN IS JP KG KR KZ LC LK LR LT LV MA MD MG MK MN MX MZ

NO NZ PL RO RU SG SI SK TJ TM TR TT UA US UZ VN YU ZA

JP 2001072700 A 20010321 (200122)

AU 2000057055 A 20010122 (200125)

A1 20020522 (200241) EP 1207167 EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

JP 2001508215 X 20030128 (200318)

APPLICATION DETAILS:

29
29
29
29
29
29
29

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2000057055	A Based on	WO 2001002428
EP 1207167	Al Based on	WO 2001002428
JP 2001508215	X Based on	WO 2001002428

PRIORITY APPLN. INFO: JP 1999-186307

19990630

2001-091796 [10] WPIDS

AΒ WO 200102428 A UPAB: 20010220

> NOVELTY - A process for preparing LH-RH derivatives is by subjecting a solution of an LH-RH derivative to treatment with a synthetic methacrylic resin adsorbent and with a synthetic aromatic resin adsorbent. By the method, it is possible to suppress and remove by-products including racemates efficiently to afford product n excellent quality and high yield.

DETAILED DESCRIPTION - A process for preparing LH-RH derivatives is by subjecting a solution of an LH-RH derivative to treatment with a synthetic methacrylic resin adsorbent and with a synthetic aromatic

resin adsorbent.

An INDEPENDENT CLAIM is also included for purified leuprolide or its salt with not more than 1 % total content of analogous substances, or with not more than 0.3 % content of 5-oxo-Pro-D-His-Trp-Ser-Tyr-D-Leu-Leu-Arg-Pro-NH-CH2CH3 or its salt.

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - None given.

USE - The prepared LH-RH derivatives are for

treatment of hormone-dependent diseases such as prostate cancer, endometrial disorder and prementrual syndrome.

ADVANTAGE - By the method, it is possible to suppress and remove by-products including racemates efficiently to afford product n excellent quality and high yield.

Dwg.0/0

L23 ANSWER 2 OF 7 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN

ACCESSION NUMBER: 2000:367425 BIOSIS DOCUMENT NUMBER: PREV200000367425

TITLE: Insect oostatic activity of GnRH and its fragments.

AUTHOR(S): Hlavacek, Jan [Reprint author]; Bennettova, Blanka; Tykva,

Richard; Velek, Jiri; Kasicka, Vaclav; Barth, Tomislav

CORPORATE SOURCE: Institute of Organic Chemistry and Biochemistry, Academy of

Sciences of the Czech Republic, Flemingovo nam. 2, 166 10,

Praha, 6, Czech Republic

SOURCE: Letters in Peptide Science, (March, 2000) Vol. 7, No. 2,

pp. 85-92. print. ISSN: 0929-5666.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 23 Aug 2000

Last Updated on STN: 8 Jan 2002

Mammal, 125I-mammal, salmon, chicken I and II GnRHs and three fragments of AB mammal GnRH were synthesized and their effect on oogenesis in the flesh fly Neobellieria (formerly Sarcophaga) bullata (Diptera) was investigated. The peptides were prepared by the Merrifield solid phase synthesis on polystyrene/divinylbenzene polymer using the Nalpha-Boc strategy in DMF and were purified by preparative RP-HPLC in a gradient of water-MeOH. From the peptides assayed, only mammal GnRH and two of its carboxy-terminus truncated analogs remarkably affected the processes of egg development in ovarioles, causing changes in the follicular epithelium, proliferation of its nuclei and cell division towards the inner part of the egg chamber. The process led to the occurrence of multinuclear follicular epithelium which finally filled up almost the whole egg chamber and then it degenerated. The inability of GnRH of other animal species to evoke the changes in the egg development establishes the question of primary structures of GnRH responsible for these biological effects. The identity of sequences of GnRHs from position 1 up to 6 (with the exception of chicken GnRH II) points to functionality of amino acids located in positions 7 and 8 of the peptide chain. The radioactivity of the 125I-labelled mammal GnRH with maintained oostatic activity and its receptor competition with the non-labelled mammal GnRH were measured in selected insect organs and exhibited different residual values according to the organ and the time after application of the peptide. A transfer of the radioactivity into the next (F1) generation was also observed.

L23 ANSWER 3 OF 7 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 96113174 EMBASE

DOCUMENT NUMBER: 1996113174

TITLE: Gonadotropin-releasing hormone (GnRH) analogues containing

Tyr(OMe) at position 5.

AUTHOR: Keramida M.; Matsoukas J.M.; Agelis G.; Panagiotopoulos D.;

Cladas J.; Maia H.L.S.; Yamdagni R.; Wu Q.; Pati D.; Moore

G.J.; Habibi H.R.

Department of Chemistry, University of Patras, Patras, CORPORATE SOURCE:

Greece

Review of Clinical Pharmacology and Pharmacokinetics, SOURCE:

International Edition, (1995) 9/2-3 (67-69).

ISSN: 1011-6583 CODEN: EKIEE2

COUNTRY: Greece

Journal; Article DOCUMENT TYPE:

FILE SEGMENT: 037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

Peptide analogues of the hypothalamic hormone GnRH (Gonadotropin Releasing Hormone), altered at positions 5 (Tyr-OMe), 6(D-Glu), 9(Aze) and 10(NHEt, NHCH2CH2OH, Glyamide) were synthesized by Fmoc solid phase methodology using the acid sensitive 2-chlorotrityl resin as solid support. The synthesized analogues were purified by reverse phase HPLC and tested for biological activity in terms of pituitary gonadotropin releasing in vivo and in vitro. Relative potencies were estimated using cultured pituitary tissues in vitro, rat pituitary GnRH receptors assay and ovulation in vivo. [Tyr(OMe)5, Aze9-NHEt] GnRH and Tyr(OMe)5, D-Glu6, Aze9-NHEt]GnRH were found to be effective in terms of inducing ovulation at 50 $\mu g/Kg$ in seabass. The conformational properties of GnRH in dimethylsulfoxide-d6 were investigated by Nuclear Overhauser Effect (NOE) enhancement studies. Assignment of all backbone and side-chain protons was possible by combining information from intraresidue NOE studies with two-dimensional correlated spectroscopy (COSY) studies. Saturation of distinct proton resonances of the three aromatic residues Tyr, His, Trp in clear areas of the NMR spectrum resulted in interresidue enhancements of aromatic resonances indicating proximity of the three aromatic rings.

L23 ANSWER 4 OF 7 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN

1986-227051 [35] ACCESSION NUMBER: WPIDS

C1986-097814 DOC. NO. CPI:

TITLE: New peptide(s) containing aliphatic-aromatic ketone side

chain - useful for effecting release of gonadotropin or inhibiting release of growth hormone by pituitary gland.

DERWENT CLASS:

ANDERSON, H A; RIVIER, J E F; VALE, W W; WYLIE, W V INVENTOR(S):

PATENT ASSIGNEE(S): (SALK) SALK INST BIOLOGICAL STUDIES

COUNTRY COUNT: 20

AU 8653489

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG ______ EP 192492 A 19860827 (198635) * EN 34

R: AT BE CH DE FR GB IT LI LU NL SE A 19860814 (198639) PT 82069 A 19860828 (198641)

JP	61194098	Α	19860828	(198641)	
ZA	8600569	Α	19860908		
DK	8600796	Α	19860823	(198703)	
US	4677193	Α	19870630	(198728)	
ES	8707973	Α	19871116	(198751)	
ΕP	192492	В	19920102	(199202)	
	R: AT BE	CH DE	FR GB IT	LI LU NL	SE
KR	9007865	В	19901022	(199204)	
DE	3683169	G	19920213	(199208)	
CA	1307374	С	19920908	(199242)	
JP	06031315	B2	19940427	(199415)	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 192492	A	EP 1986-301278	19860221
JP 61194098	Α	JP 1986-37180	19860221
ZA 8600569	A	ZA 1986-569	19860124
US 4677193	A	US 1985-704299	19850222
ES 8707973	A	ES 1986-552266	19860221
CA 1307374	С	CA 1986-501230	19860206
JP 06031315	B2	JP 1986-37180	19860221

FILING DETAILS:

PATENT NO	KIND	PATENT NO
JP 06031315	B2 Based on	JP 61194098

PRIORITY APPLN. INFO: US 1985-704299

19850222

AN 1986-227051 [35] WPIDS AB EP 192492 A UPAB: 19970909

Peptides of formula X-R1-R2-R3-R4-R5-R6(V)-R7-Arg-Pro-R10 (I) and their salts are new. In (I), X is H or 1-7C acyl, R1 is pGlu, dehydro-Pro, Pro, D-pGlu, D-Phe, D-Trp or beta-D-NAL; R2 is (W)D-Phe or His; W is F, Cl, C12, Br, NO2 or C(alpha)Me/C1; R3 is beta-D-NAL, Trp, D-Trp, D-PAL, (N(in)For) D-Trp or D-Trp substd. in the 5- or 6-posn. by NO2, NH2, OMe, F, Cl, Br or Me; R4 is Ser, Orn, beta-amino-Ala or alpha, gamma-diaminobutyric acid; R5 is Tyr, Arg, (3F)Phe, (2F)Phe, (3I)Tyr, (3Me)Phe, (2Me)Phe, (3Cl)Phe or (2Cl)Phe; R6 is D-Glu, D-Hgl or D-Asp; R7 is Leu, N(alpha)-Me-L-Leu, Nle or NVa; R10 is Gly-NH2, D-Ala-NH2 or NHY; Y is lower alkyl, cycloalkyl, lower fluoroalkyl or NHCONHQ; Q is H or lower alkyl; V is aromatic moiety of a ketone formed from the carboxylic gp. side chain of R6 and a cpd. selected from a defined list of numerous alkylbenzenes, alkyltoluenes, indanes, tetralins, alkylxylenes, polycyclic aromatic hydrocarbon derivs., aryl ethers etc.

USE/ADVANTAGE - (I) effect release of gonadotropins or inhibit release of growth hormone by the pituitary gland in mammals. They have improved biological potency compared with the natural decapeptide LH-RH from the hypothalmus. Some cpds. (I) are strongly antagonistic to LH-RH and inhibit mammalian reproduction, while others are potent agonists of LH-RH

. In females (I) may delay or suppress ovulation, and in males may arrest spermatogenesis. (I) may also be used for treating precocious puberty and endometriosis. Dose is 1--100~micrograms/kg. intravenously or 0.1--2.5

mg/kg. orally.

Dwg.0/0

ABEQ US 4677193 A UPAB: 19930922

GnRH peptide analogues and salts of formula

X-R1R2R3R4R5-D-Glu(C6H4OCH3)- R7-Arg-Pro-R10 (I),

are new. In the formula, X is H or 1-7C alkyl; R1 is pGlu, dehydro Pro, Pro, D-pGlu, D-Phe, D-Trp, betal-D-NAL: R2 is His or (W)D-Phe where W is 4F, 4Cl2, 2,4-Cl2, 4Br, 4NO2 or CalphaMe/4Cl; R3 is Trp, D-Trp, beta-D2NAL, D-PAL, (N (in) For) D-Trp, or D-Trp. substd. on 5- or 6-position with NO2, NH2, OMe, F, Cl, Br, Me; R4 is Ser, Orn, AAL, or aBu; R5 is Tyr, Arg, (3F)Phe, (2F)Phe, (3I)Tyr, 3(Me)Phe, (2Me)Phe, (3Cl)Phe, (2Cl)Phe; R7 is Leu, NML, Nle, or Nva; R10 is Gly-NH2, D-Ala-NH2, or NH-Y with Y as lower alkyl opt. F-substd. cycloalkyl, NHCONHQ where Q is H or alkyl.

Specifically claimed cpds. include Ac-beta-D-2 NAL-(4Cl) D-Phe-D-3PAL Ser-Arg-D-Glu(C6H4OCH3)-Leu-Arg-Pro-D-Ala-NH2.

(I) may be synthesised e.g. by forming intermediate (II): X1-R1-(W)D-PheR3(X2)- R4(X3)-R5(XX4) or (X6)R6(X5)-R7-Arg(X6)-Pro-X7 where X's are H or protecting gps. and X7 is Gly-NH-resin support or other attachment to resin, and deprotecting with HF in presence of aromatic Z to form alkyl ketone side chain with aromatic termination in centre of main chain.

USE - GnRH analogues (I) regulate secretion of FSH and LH and then gonadotrophins by pituitary: antagonists inhibit ovulation and release of gonadotrophins progesterone and testerone: agonists increase male and female fertility. Substitution of D-amino acid for Cly in CnRH gives stronger binding and potency.

L23 ANSWER 5 OF 7 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER:

84085565 EMBASE

DOCUMENT NUMBER:

1984085565

TITLE:

Structure-activity studies on the N-terminal region of

glucagon.

AUTHOR:

Sueiras-Diaz J.; Lance V.A.; Murphy W.A.; Coy D.H.

CORPORATE SOURCE:

Section of Endocrinology and Metabolism, Department of Medicine, Tulane University School of Medicine, New

Orleans, LA 70112, United States

SOURCE:

Journal of Medicinal Chemistry, (1984) 27/3 (310-315).

CODEN: JMCMAR

COUNTRY:

United States

DOCUMENT TYPE:

Journal

FILE SEGMENT:

037 Drug Literature Index

030 Pharmacology 003 Endocrinology

LANGUAGE:

English

Using solid-phase methodology and preparative medium— and high-performance reverse-phase liquid chromatography, we have synthesized glucagon and its Arg12 analogue in approximately 5% yields. The synthetic glucagon was fully active relative to natural material, and the Arg12 peptide exhibited 50% activity. Since perhaps the most critical part of the glucagon-family peptides is the N-terminal hexapeptide region, both batches of resin were split during synthesis in order to prepare two series of analogues based on glucagon and [Arg12]glucagon with changes in the His-Ser-Gln-Gly-Thr-Phe sequence. The following new analogues were tested for their effects on blood glucose levels in normal male rats relative to

glucagon and gave the following activities: [Ac-His1,Arg12]glucagon, 46%; [3-Me-His1,Arg12]glucagon, 30%; [Phe1,Arg12]glucagon, 31%; [Des-His1,Arg12]glucagon, 4%; [D-Ala2,Arg12]glucagon, 44%; [D-p-C]-Phe1,D-ala4,Arg12]glucagon, 9%; [D-Phe4]glucagon, 655%; [Ala2]glucagon, 9%. These data indicate that the amino or imidazole nitrogens of the histidine residue are not essential for biological activity. However, an aromatic group in position 1 may be important, since the Phel analogue is almost as active as glucagon in our bioassay. The superagonist activity with [D-Phe4]glucagon, which was synthesized to test the hypothesis that a β -bend conformation occurs at this position in glucagon by analogy with luteinizing hormone-releasing hormone and other Gly-containing peptides, indicates that this is indeed the case and has

Gly-containing peptides, indicates that this is indeed the case and has important implications for the receptor-recognition requirements of the glucagon-secretin-vasoactive intestinal peptide family of peptides.

L23 ANSWER 6 OF 7 MEDLINE on STN
ACCESSION NUMBER: 81259083 MEDLINE
DOCUMENT NUMBER: PubMed ID: 7020991

TITLE: 125I-labeled gonadoliberin and high specific activity and

immunoreactivity: method of iodination and rapid

separation.

AUTHOR: Sarda A K; Barnes M A; Nair R M

SOURCE: Clinical chemistry, (1980 Apr) 26 (5) 573-8.

Journal code: 9421549. ISSN: 0009-9147.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198110

ENTRY DATE: Entered STN: 19900316

Last Updated on STN: 19900316 Entered Medline: 19811029

AB We describe optimum conditions for iodinating gonadoliberin with use of relatively large proportions of Na 125I. Products of the iodination are separated on an anion-exchange resin (Amberlite IRA-400). The 125I-labeled gonadoliberin thus obtained has a high specific activity (1400 to 1590 Ci/g); because of the conditions of iodination, we believe that the predominant species of the labeled decapeptide is the mono-iodinated one. Our separation and purification of the labeled substance on ion-exchange resin is rapid, economical, and less cumbersome than the use of a Biogel P-2 column. There is no adsorption of the labeled hormone onto the resin, as evidenced by analytical recovery studies with tritium-labeled gonadoliberin. Paper-strip chromatoelectrophoresis showed no free Na 125I or radiolabeled damaged peptide fragments after purification on the resin. When antiserum was used at a concentration 32-fold that used in the regular assay procedure, only 4% of the radioactivity remained in the free form, indicating the high immunoreactivity of the labeled hormone.

L23 ANSWER 7 OF 7 JAPIO (C) 2005 JPO on STN ACCESSION NUMBER: 2001-072700 JAPIO

TITLE: PURIFICATION OF LH-RH DERIVATIVE INVENTOR: SASAKI YASUHIRO; SHIMIZU KATSUJI

PATENT ASSIGNEE(S): TAKEDA CHEM IND LTD

PATENT INFORMATION:

```
KIND DATE
                                      ERA MAIN IPC
     PATENT NO
     JP 2001072700 A
                           20010321 Heisei C07K007-23
APPLICATION INFORMATION
     STN FORMAT:
                        JP 2000-201434
                                              20000629
     ORIGINAL:
                        JP2000201434
                                              Heisei
PRIORITY APPLN. INFO.: JP 1999-186307
                                            19990630
                        PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
SOURCE:
                        Applications, Vol. 2001
AN
     2001-072700
                   JAPIO
     PROBLEM TO BE SOLVED: To obtain the subject high-quality derivative in an
AB
     industrially advantageous method and high yield by passing a solution
     containing a specific derivative through a step treating with a
     methacrylic synthetic absorptive resin and a step
     treating with an aromatic synthetic absorptive resin.
     SOLUTION: A solution containing an LH-RH derivative is
     passed through a step treating with a methacylic synthetic absorptive
     resin and a step treating with an aromatic synthetic
     absorptive resin to provide the objective derivative.
     Peptidergic LH-RH derivative (salt) having LH
     -RH agonist activity and effective for hormone-dependent
     diseases is exemplified as the LH-RH agonist. A
     physiologically active peptide (salt), etc., of the formula
     5-oxoproline-histidine-tryptophan-serine-tyrosine-Y-leucine-arginine-
     proline-Z (Y is a residue of D- leucine, D-alanine or the like; Z is
     NH-C2H5 or glycine-NH2) is exemplified as such derivative.
     COPYRIGHT: (C) 2001, JPO
     FILE 'CAPLUS' ENTERED AT 15:39:36 ON 01 FEB 2005
L24
              0 S L12 AND STYRENE (W) DVB
     FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS,
     JAPIO' ENTERED AT 15:39:46 ON 01 FEB 2005
L25
              0 S L24
     (FILE 'CAPLUS, MEDLINE, BIOSIS, EMBASE, WPIDS, CONFSCI, SCISEARCH,
     JICST-EPLUS, JAPIO' ENTERED AT 15:40:24 ON 01 FEB 2005)
                                                          - Author (s)
          35025 SEA ABB=ON PLU=ON "SASAKI Y"?/AU
L26
          40944 SEA ABB=ON PLU=ON "SHIMIZU K"?/AU
L27
L28
             16 SEA ABB=ON PLU=ON L26 AND L27
          75953 SEA ABB=ON PLU=ON L26 OR L27
L29
             30 SEA ABB=ON PLU=ON L29 AND L12
L30
             3 SEA ABB=ON PLU=ON L30 AND (L14 OR STYRENE(W)(DIVINYLBENZENE
L31
                OR DI(W) (VINYLBENZENE OR VINYL(W) BENZENE) OR DIVINYL BENZENE
                OR DVB) OR RESIN)
L32
             16 SEA ABB=ON PLU=ON L28 OR L31
             13 DUP REM L32 (3 DUPLICATES REMOVED)
L33
L33 ANSWER 1 OF 13 JICST-EPlus COPYRIGHT 2005 JST on STN
ACCESSION NUMBER:
                    1030640282 JICST-EPlus
                    Catalyst Activity Researches of Dodecatungstate Catalysts
TITLE:
                    Containing Organic Cation on Solvent-Free Epoxidation
AUTHOR:
                   HOJO TATSUHIKO
                      SHIMIZU KENJI
```

Searcher :

571-272-2528

Shears

NAKAMURA KEN'ICHI SASAKI YO ICHIHARA JUNKO YAMAGUCHI SHUNRO

SOURCE:

Nippon Kagakkai Koen Yokoshu, (2003) vol. 83rd, no. 1, pp.

553. Journal Code: S0493A

ISSN: 0285-7626

PUB. COUNTRY:

DOCUMENT TYPE:

Conference; Short Communication

LANGUAGE:

Japanese

STATUS:

New

Japan

Syntheses of the dodecatungstate catalysts containing various organic AB cation except cetylpyridinium were investigated and the catalytic activities were compared on the solvent-free epoxidation of cyclooctene. The initial catalyst activities depended upon alkyl ammonium cation consisting of the polyoxometalate catalysts. (author abst.)

L33 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1

ACCESSION NUMBER:

2001:31529 CAPLUS

DOCUMENT NUMBER:

134:101194

TITLE:

Process for the preparation of LH-RH

derivatives by chromatographic purification using

synthetic methacrylic resin adsorbent

Sasaki, Yasuhiro; Shimizu, Katsuji

INVENTOR(S): PATENT ASSIGNEE(S):

Takeda Chemical Industries, Ltd., Japan

SOURCE:

PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATE	PATENT NO.				KIND DATE			APPLICATION NO.				DATE					
WO 20	2001002428 A1 20010111								20000629								
7	7:	ΑE,	AG,	AL,	AM,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CN,	CR,	CU,
				-			GE,	-	-	-							
							MA,										
							TM,										
									,	,				•	•	•	•
1	: WS	•	•	•	•		•		SL	S7.	Т7.	UG.	7W.	AT.	BE.	CH.	CY.
•			•	•	•	•	•	-	-	_	_	-					
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CA 23	3767	•	•	•	•	•	-	•	•	•			-		20	0000	629
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DDTODTTV 7	DDT	•	•	•	ш ,	,	110,	1111,	•		999-	1863	07 -	7	۱۰ د	9990	530
INTONITI	11.1.	314 • 3	LINEO	• •													
WO 2000-JP4277 W 20000629 OTHER SOURCE(S): MARPAT 134:101194																	
characterized by subjecting a solution of an LH-RH derivative																	
to both treatment with a synthetic methacrylic resin adsorbent																	
CA 23 JP 20 EP 12 PRIORITY A OTHER SOUR AB A pro-	3767 0010 2071 R: APPI RCE (BY, GH, DE, CF, 163 07270 AT, IE, IN.	KG, GM, DK, CG, 00 BE, SI, INFO	KZ, KE, ES, CI, CH, LT, .:	MD, LS, FI, CM, AA A2 A1 DE, LV, MAR	RU, MW, FR, GA, DK, FI, PAT rati	TJ, MZ, GB, GN, 20010 20020 ES, RO, 134::	TM SD, GR, GW, 0111 0321 0522 FR, MK,	SL, IE, ML, GB, CY,	SZ, IT, MR, CA 2 JP 2 GR, AL JP 1 WO 2 deri	TZ, LU, NE, 000-1 000-1 IT, 999-1	UG, MC, SN, 2376 2014: 9423: LI, 1863: JP42: is	ZW, NL, TD, 763 34 86 LU, 07	AT, PT, TG	BE, SE, 20 20 SE, A 19 W 20	CH, BF, 00000 00000 MC,	CY, BJ, 629 629 629 PT,

571-272-2528 Searcher : Shears

this process, the formation of byproduct impurities including racemates of

and that with a synthetic aromatic resin adsorbent. According to

LH-RH derivs. can be suppressed and such impurities can
be efficiently removed, which enables the production of LHRH derivs. having extremely high quality. Further, the process
attains satisfactory purification effectively through the two treatment
steps

and can give LH-RH derivs. efficiently in high yields by easy operations not involving troublesome solid-liquid separation Thus,

aqueous solution (5,600 g) containing 85.46 g leuprolide acetate was passed through a

column of a methacrylic resin adsorbent (HP2MG, Mitsubishi Chemical Corp., Yokohama, Japan) (5,500 mL), followed successively washing the column with 0.3 M aqueous AcONa (pH 6.0) (11,000 mL), 0.25 M aqueous AcONH4 (13,750 mL), 10 volume% aqueous ethanol (19,250 mL) at 3-7°, and then eluting it with 0.05 M aqueous AcOH (19,250 mL) at 3-7° to give, after collecting the active fractions and concentration, 73.77 g leuprolide

(85.46 g).

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2

ACCESSION NUMBER:

1996:527452 CAPLUS

DOCUMENT NUMBER:

125:146930

TITLE:

SOURCE:

Method and apparatus for manufacture of p-xylene

INVENTOR(S): Kumada, Fumio; Hatanaka, Shigeto; Shimizu,

Kazutomo; Sasaki, Yoichi

PATENT ASSIGNEE(S):

Mitsubishi Oil Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08143483	A2	19960604	JP 1994-58128	19940303
PRIORITY APPLN. INFO.:			JP 1994-58128	19940303
	_			G7 0

AB In the manufacture of p-xylene by distillation-separation of C7-9 fractions, p-xylene

separation and raffinate isomerization stages, the method comprises mixing the

raffinate with a fresh feed containing ethylbenzene, p-xylene, o-xylene and m-xylene fractions, isomerizing the mixed raffinate, separating the xylene fractions by distillation, and separating p-xylene from the xylene fractions.

L33 ANSWER 4 OF 13 JICST-EPlus COPYRIGHT 2005 JST on STN

ACCESSION NUMBER: 9

960878965 JICST-EPlus

TITLE:

SIMS Analysis of Zn diffusion into InGaAsP.

AUTHOR:

KAWASHIMA YOSHIYA; SHIMIZU KEIJI; SHIOTANI KEIJI;

SASAKI YOSHIHIRO

CORPORATE SOURCE:

NEC Corp.

SOURCE:

Oyo Butsuri Gakkai Gakujutsu Koenkai Koen Yokoshu, (1996)

vol. 57th, no. 2, pp. 548. Journal Code: Y0055A

PUB. COUNTRY:

Japan Japanese

LANGUAGE:

New

STATUS:

L33 ANSWER 5 OF 13 JAPIO (C) 2005 JPO on STN

ACCESSION NUMBER:

1994-183377 JAPIO

TITLE:

WINDOW GLASS POSITIONING DEVICE

INVENTOR:

SHIMIZU KIWA; SASAKI YASUHIRO

PATENT ASSIGNEE(S):

HONDA MOTOR CO LTD

PATENT INFORMATION:

PATENT NO KIND DATE ERA MAIN IPC 19940705 Heisei B62D065-00 JP 06183377 A

APPLICATION INFORMATION

STN FORMAT:

JP 1992-356235

19921221

ORIGINAL:

JP04356235

Heisei

PRIORITY APPLN. INFO.: JP 1992-356235

19921221

SOURCE:

PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined

Applications, Vol. 1994

ΑN 1994-183377 JAPIO

PURPOSE: To provide a positioning device for positioning a window glass, AB curved at both lateral end parts, into a specified position in order to apply adhesive, for instance.

CONSTITUTION: In order to position a curved window glass W, a window glass positioning device is provided with suction mechanism 2 for suction-holding the window glass W, and end part holding mechanism 3 for holding both longitudinal end parts of the window glass W. Both lateral end parts of the window glass W are pressure-deformed inward by a pair of pressing members 13 provided at the end part holding mechanism 3, so that the window glass $\ensuremath{\mathtt{W}}$ is positioned in the narrower shape than the normal shape. These pressing members 13 can be advanced/retreated by the operation of a cylinder unit 8.

COPYRIGHT: (C) 1994, JPO&Japio

L33 ANSWER 6 OF 13 JICST-EPlus COPYRIGHT 2005 JST on STN

ACCESSION NUMBER: 930621035 JICST-EPlus

TITLE:

On development of a chemical purchase control system using

statistical method and the evaluation.

AUTHOR:

SAWA AKIHIRO; YAMASAKI KOJI; SHIMIZU KATSUHIRO; SHINAGAWA RYUTARO; OISHI TERUO; SASAKI YOSHIHITO

CORPORATE SOURCE:

Mazda Hospital

SOURCE:

Nippon Byoin Yakuzaishikai Zasshi (Journal of Japanese Society of Hospital Pharmacists), (1993) vol. 29, no. 6, pp. 693-698. Journal Code: S0740C (Fig. 8, Tbl. 1, Ref. 2)

CODEN: NBYZEB; ISSN: 1341-8815

PUB. COUNTRY:

Japan

DOCUMENT TYPE:

Journal; Commentary

LANGUAGE:

Japanese

STATUS:

New

L33 ANSWER 7 OF 13 JICST-EPlus COPYRIGHT 2005 JST on STN

ACCESSION NUMBER:

880240557 JICST-EPlus

TITLE:

Symposium. The 3rd Symposium on Percutaneous

Absorption-type preparations. Poster session. 2. A

Searcher :

Shears

571-272-2528

consideration on the evaluating method drug efficacy of

local antiphlogistic analgesic transdermal patch. SHIMIZU KEISUKE; KOMATSU SHUICHI; HOSOKI RUMIKO;

AUTHOR:

SATO TAKAHIRO; NAGANO KATSUHIRO; MATSUNO SAKAHITO

TAZOE RYUICHI SASAKI YASUHIKO TAKEISHI MASATAKA

CORPORATE SOURCE: Mikasaseiyaku

Ridokemikaru Suzukinihondo

Nihon Univ., College of Agriculture and Veterinary Medicine

Ther Res, (1988) vol. 8, no. 1, pp. 235-236. Journal Code: SOURCE:

Y0681A (Fig. 3) ISSN: 0289-8020

PUB. COUNTRY:

Japan'

DOCUMENT TYPE: Journal; Short Communication

Japanese LANGUAGE: STATUS: New

DUPLICATE 3 L33 ANSWER 8 OF 13 MEDLINE on STN

ACCESSION NUMBER: 84011758 MEDLINE PubMed ID: 7186555 DOCUMENT NUMBER:

TITLE: Responses of narrow segments of intestines in the

congenital aganglionosis rat to various stimulants.

Ikadai H; Shimizu K; Nakajyo S; Imamichi T; **AUTHOR:**

Sasaki Y; Urakawa N

Nippon Heikatsukin Gakkai zasshi, (1982 Nov) 18 (5) 347-61. SOURCE:

Journal code: 7505718. ISSN: 0374-3527.

PUB. COUNTRY: Japan

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: Japanese

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198311

Entered STN: 19900319 ENTRY DATE:

> Last Updated on STN: 19900319 Entered Medline: 19831123

The shortenings of intestinal strips isolated from narrow segments in the AΒ aganglionosis rat have been studied in response to stimulants and field stimulation. Relating to the action of nicotine, eserine and field stimulation, the number of exogenous nerve bundles observed between the longitudinal and circular muscle layer and the type of cells existing in the nerve bundles were examined by light and electron microscopes. Nicotine shortened in 16 out of 31 narrow segments and eserine 13 out of 14 preparations. In 6 out of 21 preparations, field stimulation produced weak contraction, which was abolished by pretreatment of atropine or TTX. The number of the nerve bundles was larger in the responded groups than in the non-responded. However, no ganglion cells were observed in the nerve bundle of the narrow segment of the aganglionosis rat. To acetylcholine, serotosine, prostaglandin E2, KCl and BaCl2, all narrow segments responded, though the response to these drugs particulary to KCl was extremely weaker than those in control. It is suggested that the nerve bundles of the narrow segment branched and formed nerve endings in the smooth muscle and the responsiveness of the receptor to the stimulants is maintained in the narrow segment, but contractility of the smooth muscle is small.

L33 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:40484 CAPLUS

DOCUMENT NUMBER: 90:40484

TITLE: Surface sizes for paper

INVENTOR(S): Shimizu, Katsuhisa; Ishibe, Shuhei;

Tsuchida, Seiichi; Amano, Kazuo; Minami, Norio;

Sasaki, Yoshikazu

PATENT ASSIGNEE(S): Arakawa Chemical Industries, Ltd., Japan

SOURCE: Jpn. Tokkyo Koho, 5 pp.

CODEN: JAXXAD

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 53038324 B4 19781014 JP 1971-22496 19710410

PRIORITY APPLN. INFO: JP 1971-22496 A 19710410

AB Oils from decomposition of naphtha were copolymd. with methacrylic acid (I) or

acrylic acid and neutralized with KOH and aqueous NH3 to prepare sizes. Thus, $% \left(1\right) =\left(1\right) +\left(1$

an oil having b.p. 160-80° and Br number 56 100, I 25, and AIBN 1.5 g were heated at 100° for 5 h to prepare 33.4 g polymer, dispersed in water, treated with KOH to degree of neutralization 80%, and used as a size to prepare paper having Stockigt sizing degree 30 s, compared with 3 s for paper containing no size.

L33 ANSWER 10 OF 13 MEDLINE on STN ACCESSION NUMBER: 80066117 MEDLINE DOCUMENT NUMBER: PubMed ID: 292506

TITLE: A case of multiple maxillo-facial fracture with special

reference to transzygomatic pinning (author's transl).

AUTHOR: Ishikawa M; Shimizu K; Fujii T; Suzuki S;

Yamamoto Y; Sumida H; Morisawa N; Sasaki Y

SOURCE: Josai Shika Daigaku kiyo. Bulletin of the Josai Dental

University, (1978) 7 (2) 339-44.

Journal code: 0377752. ISSN: 0301-2662.

PUB. COUNTRY: Japan

DOCUMENT TYPE: (CASE REPORTS)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: Japanese

FILE SEGMENT: Dental Journals

ENTRY MONTH: 198002

ENTRY DATE: Entered STN: 19900315

Last Updated on STN: 19900315 Entered Medline: 19800226

L33 ANSWER 11 OF 13 JAPIO (C) 2005 EPO on STN

ACCESSION NUMBER: 1976-042365 JAPIO

TITLE: HAISUINOSHORIHO

INVENTOR: KOGA KOICHI; TAKAMORI IWANE; WATANABE TSUYOSHI; ANDO

KATSUYOSHI; FUNAKI AKIRA; SHIMIZU KATSUNOSUKE

; SASAKI YOSHIHIRO

PATENT ASSIGNEE(S): SUMITOMO KAGAKU KOGYO KK

PATENT INFORMATION:

ERA MAIN IPC PATENT NO KIND DATE _____ JP 51042365 A 19760409 Showa C02C001-06

APPLICATION INFORMATION

19741008 Showa STN FORMAT: JP 1974-116638 PRIORITY APPLN. INFO.: JP 1974-116638 19741008 SOURCE: JP49116638

AN 1976-042365 JAPIO

L33 ANSWER 12 OF 13 JAPIO (C) 2005 JPO on STN

ACCESSION NUMBER: 2003-199293 JAPIO

COOLING APPARATUS FOR DRIVE DEVICE WITH MOTOR TITLE:

SHIMIZU KATSUTOSHI; SASAKI YOSHIHIKO INVENTOR:

; YOSHIDA TOSHIHISA

PATENT ASSIGNEE(S): AISIN AW CO LTD

PATENT INFORMATION:

PATENT NO KIND DATE ERA MAIN IPC ------JP 2003199293 A 20030711 Heisei H02K009-19

APPLICATION INFORMATION

STN FORMAT: JP 2001-398635 20011227
ORIGINAL: JP2001398635 Heisei
PRIORITY APPLN. INFO.: JP 2001-398635 20011227
SOUNCE: PATENT ABSTRACTS OF JAPAN (CD-

PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined SOURCE:

Applications, Vol. 2003

AN 2003-199293 JAPIO

AB PROBLEM TO BE SOLVED: To prevent refrigerants of different kinds which cool a drive device with a motor from mixing together at a heat transfer part.

SOLUTION: In the cooling apparatus of a drive device with a motor, a first refrigerant circulation system and a second refrigerant circulation system are independently provided so that a first refrigerant which cools the motor is cooled by a second refrigerant of a different kind. At a heat exchange part where the refrigerant channels of the first and second refrigerant circulation systems, a heat transfer wall 12 which isolates the refrigerant channels from each other is provided. The heat transfer wall is a member different from a member 10 forming the refrigerant channels. On the joint surface between the heat transfer wall and the member forming the refrigerant channel, a drain channel E communicating with the outsides of both refrigerant circulation systems is formed. Thus, the refrigerant leaking to the joint surface is discharged through the drain channel, preventing the mixture of the refrigerants of different kinds.

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L33 ANSWER 13 OF 13 JAPIO (C) 2005 JPO on STN

ACCESSION NUMBER: 2001-072700 JAPIO

TITLE: PURIFICATION OF LH-RH DERIVATIVE SASAKI YASUHIRO; SHIMIZU KATSUJI INVENTOR:

PATENT ASSIGNEE(S): TAKEDA CHEM IND LTD

PATENT INFORMATION:

- 0 🛂

PATENT NO KIND DATE ERA MAIN IPC

JP 2001072700 A 20010321 Heisei C07K007-23

APPLICATION INFORMATION

STN FORMAT: JP 2000-201434 20000629 ORIGINAL: JP2000201434 Heisei PRIORITY APPLN. INFO.: JP 1999-186307 19990630

SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined

Applications, Vol. 2001

AN 2001-072700 JAPIO

PROBLEM TO BE SOLVED: To obtain the subject high-quality derivative in an AΒ industrially advantageous method and high yield by passing a solution containing a specific derivative through a step treating with a methacrylic synthetic absorptive resin and a step treating with an aromatic synthetic absorptive resin. SOLUTION: A solution containing an LH-RH derivative is passed through a step treating with a methacylic synthetic absorptive resin and a step treating with an aromatic synthetic absorptive resin to provide the objective derivative. Peptidergic LH -RH derivative (salt) having LH-RH agonist activity and effective for hormone-dependent diseases is exemplified as the LH-RH agonist. A physiologically active peptide (salt), etc., of the formula 5-oxoproline-histidine- tryptophan-serinetyrosine-Y-leucine-arginine-proline-Z (Y is a residue of D- leucine, D-alanine or the like; Z is NH-C2H5 or glycine-NH2) is exemplified as such derivative.

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